



博士德公众号



实验技术手册



抗体应用手册



ELISA应用手册



细胞培养手册



WB实验视频



IHC实验视频



ELISA实验视频



细胞实验视频



FCM实验视频



抗体应用手册

Antibody Application Manual

33周年 专注试剂 始于源头

Monoclonal | Polyclonal | Internal reference | Labelled
Phosphorylated | Zebrafish | Recombinant monoclonal

BOSTER[®]
antibody and ELISA experts



博士德·中国

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博士德·美国

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2000+
ELISA试剂

20000+
抗体指标

80000+
引用文献



ABOUT US 关于我们

博士德生物 (BOSTER) 由生物组织学家夏一方博士于1993年创立，是一家集研发、生产、销售与技术服务于一体的高科技生物公司。2011年，Bosterbio研发中心在美国加州成立，汇聚国内外分子生物学、免疫学、细胞生物学等领域专家，持续推动产品与技术创新。

博士德专注于为生命科学研究提供高品质科研试剂与一站式技术支持。公司自建生产基地，从原料与工艺源头严格把控质量，产品与服务覆盖抗体、ELISA试剂盒、免疫检测试剂、分子生物、细胞培养等八大产品体系，广泛应用于基础研究、转化医学与药物开发等前沿领域。同时，博士德提供专项定制与多类实验技术服务，支持科研工作从选品到实验落地的全流程需求。

经过三十余年深耕，博士德已自主研发抗体超过2万种、ELISA试剂盒超过2000种，服务国内外科研机构、院校及工业药企超过1万家，助力发表文献累计8万次，综合影响力位居国内前列。

目前，博士德在全球建立了完善的渠道与合作网络，与美国、德国、英国、加拿大、法国、瑞士、日本、新西兰、澳大利亚、泰国、马来西亚等国家和地区的总代理及经销商合作；在国内各省及直辖市设有办事处或合作伙伴。博士德已为全球100多个国家的科研人员提供产品与服务，持续赢得研究者信任，成长为生物科研行业诚信与技术领先的标杆企业。



1 抗体

严格验证的高特异性抗体；
广泛适配WB/IHC/IF/流式多平台；
批次稳定性认证，实验可重复性强；
相比进口同标准抗体，性价比高。

2 ELISA试剂盒

高灵敏度检测，数据稳定可靠；
血清/血浆/细胞上清全兼容，实验更灵活；
CV值≤10%，确保结果一致性；
免费代测服务，免除后顾之忧。

3 细胞系

种类齐全，涵盖实验常用细胞种属；
严格验证，无支原体&无病毒污染；
STR图谱/种属污染验证；
代次低，状态良好，活性高。

4 WB检测试剂

品种齐全，进口原料保障高品质；
严格质控，产品质量更有保障；
批间批内差小，数据精准可重复；
高性价比，快速交付，节省时间成本。

5 IHC检测试剂

产品灵敏度高，背景优；
操作简便，稳定性优异；
批间批内差小，实验结果可重复；
性价比高，货期快。

6 胎牛血清

正规优质血源，三级100nm过滤；
低内毒素，无细菌、真菌、支原体污染；
批间差小，保证实验的稳定性与可重复性；
500余种培养验证，优良的生长效果。

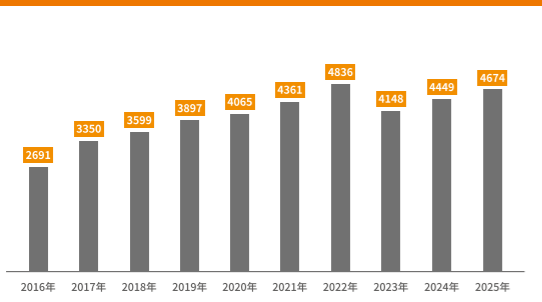
7 分子生物检测试剂

采用先进的探针设计，灵敏度高；
适用多种组织和细胞样本，支持多平台实验；
高特异性结合，无背景噪音，数据准确可靠；
高稳定性，批次一致性强。

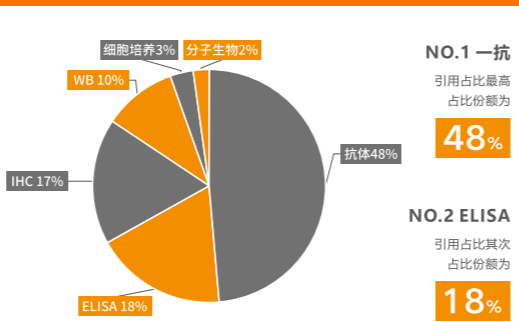
8 实验服务

专业定制服务，满足个性化需求；
全方位技术支持，覆盖多种实验领域；
提供病理/ELISA/分子/细胞类等实验服务；
高效代测服务，节省实验时间。

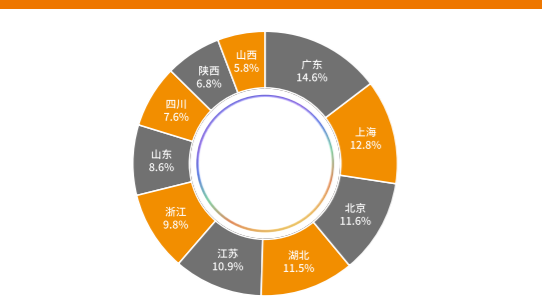
近十年SCI文献引用走势



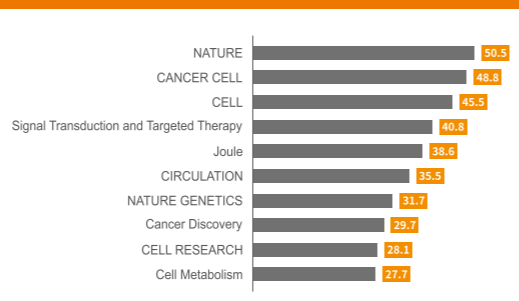
产品文献引用占比



国内文献数量占比TOP 10



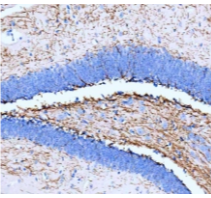
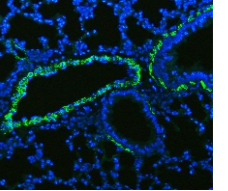
期刊影响因子TOP 10



抗体类别 Product Category

单克隆抗体

单克隆抗体是识别目标抗原上的单一表位，特异性高，交叉反应低。包括鼠来源单抗和兔来源单抗。博士德还可提供高质量的单抗定制服务。具有纯度高，灵敏度高，特异性强，交叉反应少等优点。

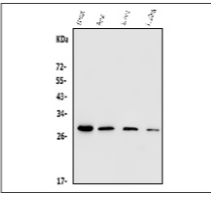
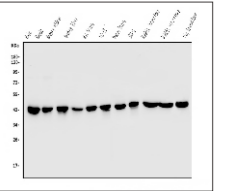


多克隆抗体

多克隆抗体能识别目标抗原上的多个表位，对低丰度的蛋白质有较高的灵敏度。博士德生物还可提供多物种多抗定制服务。具有制备周期短、成本低、应用广泛等优点。

内参抗体

内参蛋白对科学研究的参照意义是不可或缺的，尤其是正确解释免疫印迹（WB）实验结果。内参蛋白的表达水平可为目标蛋白表达水平的变化提供一个参照，可以校正蛋白质定量、上样过程中存在的误差，保证实验结果的准确性。

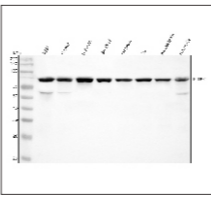
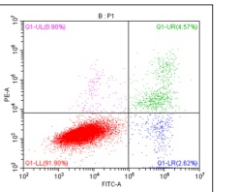


标签抗体

能够高度特异性识别通过重组技术构建的融合蛋白上特殊标签的抗体。标签抗体可用于检测和纯化各种商品化表达载体上的标签序列，籍以分析检目的蛋白的表达含量及其功能。常见的融合蛋白标签包括Flag、HA、Tag、His、GFP、GST、Myc、V5等。

标记抗体

经过荧光素特殊处理的抗体，将荧光基团与抗体耦连，荧光素经恰当的激发可发光，从而得知抗体的定位和待测抗原的分布情况，主要用于细胞分选或高分辨率免疫染色，如FCM和IF，是一种非常好的亚细胞水平精确定位的方法。

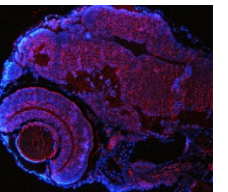


磷酸化抗体

针对一个底物磷酸化和去磷酸化状态下的磷酸化位点而生产的抗体，这样利用底物磷酸化和去磷酸化时和抗体结合型的改变来研究底物是否被磷酸化，从而研究蛋白活性的变化。免疫原经过磷酸化，用其制备的抗体就称之为磷酸化抗体。

斑马鱼抗体

可特异性识别斑马鱼蛋白表位，基于其与人类基因组高度同源，广泛应用于胚胎发育追踪、基因功能验证及人类疾病模型构建。该抗体兼具高灵敏度和低交叉反应性，为疾病机制解析提供高效工具。



产品引用次数: 80000+ | SCI文献篇数: 51312 | 总影响因子: 217116 | 最高影响因子: 66.85

CCT2 is an aggregophagy receptor for clearance of solid protein aggregates

IF=66.85
发表期刊: CELL
DOI: 10.1016/j.cell.2022.03.005
作者单位: 北京生命科学国家重点实验室
博士德引用产品:
Anti-TP21 Antibody (Clone#2E7) (M02389)
Anti-CCT3 Antibody (P8926)

Mitsugumin 53 drives stem cell differentiation easing intestinal injury and inflammation

IF=52.7
发表期刊: Signal Transduction and Targeted Therapy
DOI: 10.1038/s41392-025-02268-x
作者单位: 北京大学
博士德引用产品:
Anti-Lysosyme/LYZ Antibody (BM4383)
Anti-CCT3 Antibody (P8926)

Distinct tumor architectures and microenvironments for the initiation of breast cancer metastasis in the brain

IF=48.8
发表期刊: CANCER CELL
DOI: 10.1016/j.ccell.2024.08.015
作者单位: 纪念斯隆凯特琳癌症中心
博士德引用产品:
Anti-CD68 Antibody (BA3638)

Distinct roles of TREM2 in central nervous system cancers and peripheral cancers

IF=50.3
发表期刊: CANCER CELL
DOI: 10.1016/j.ccell.2024.09.032
作者单位: 中山大学附属第一医院
博士德引用产品:
Anti-CD206/MRC1 Antibody (A02285-2)
Anti-INO5/NO52 Antibody (A09368)
Anti-STAT3 Antibody (B04652)
Anti-STAT1 Antibody (B04110)
Anti-AKT1/2/3 Antibody (B04400)

SIGLEC12 mediates plasma membrane rupture during necroptotic cell death

IF=48.5
发表期刊: NATURE
DOI: 10.1038/s41586-025-09741-1
作者单位: 德克萨斯大学西南医学中心
博士德引用产品:
Anti-SIGLEC12 Antibody (A10550-1)

A metabolite-based resistance mechanism against malaria

IF=45.8
发表期刊: SCIENCE
DOI: 10.1126/science.adg6741
作者单位: 首尔国立大学分子生物学研究所
博士德引用产品:
Anti-UGT1A1 Antibody (A01865-1)

IRE1α silences dsRNA to prevent taxane-induced pyroptosis in triple-negative breast cancer

IF=45.5
发表期刊: CELL
DOI: 10.1016/j.cell.2024.09.032
作者单位: 波士顿大学MDO安德森癌症中心
博士德引用产品:
Anti-MEPV Antibody (A00764-1)

Hematopoietic stem cell niche generation and maintenance are distinguishable by an epitranscriptomic program

IF=45.5
发表期刊: CELL
DOI: 10.1016/j.cell.2024.03.032
作者单位: 哥伦比亚大学欧文医学中心
博士德引用产品:
Anti-METTL3 Antibody (A01758-1)

文献是最好的口碑! 更多参考文献请查询博士德官网 www.boster.com

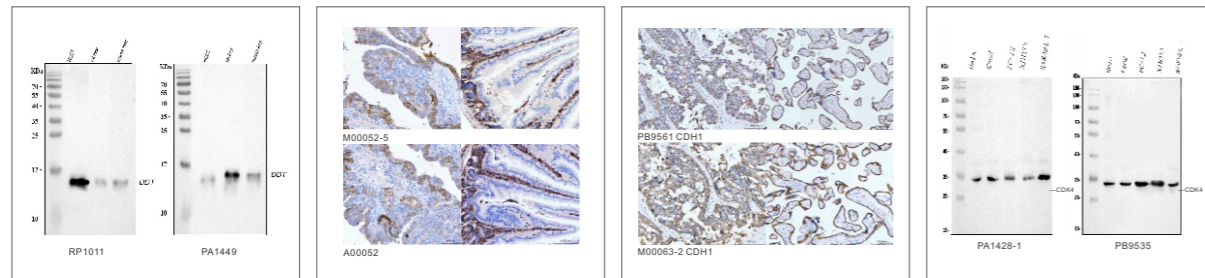
抗体验证 Validation Criteria

不同应用对抗体验证的要求各不相同，因此通常需要结合多种验证方法，才能更全面地评估抗体在不同样本类型与实验条件下的表现。我们采用 ICC/IF、IHC、WB、流式细胞术、ELISA、IP 等多种手段开展质量控制，从特异性、灵敏度、背景信号到重复性进行系统评估，确保每一款抗体都以最匹配的方式完成验证，并满足所需的活性、稳定性与性能标准。

同时，我们坚持批批质检，为您提供具备高特异性与高一一致性的抗体，确保实验结果稳定可靠。

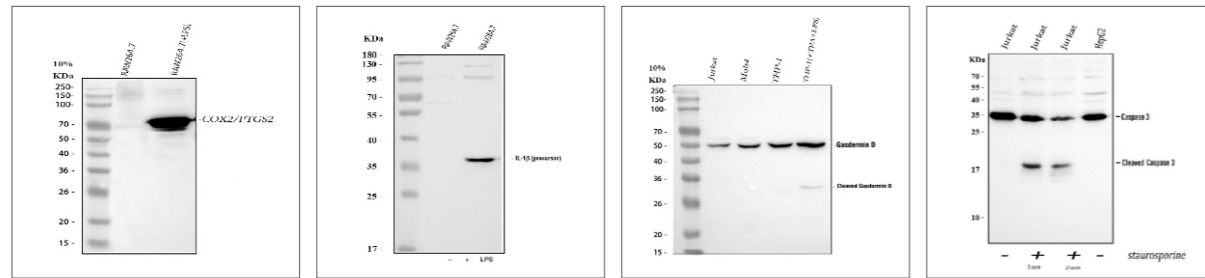
同一靶标不同表位抗体验证

针对同一靶标、不同表位的两种抗体若在 ICC/IF、IHC 或 WB 中呈现一致的染色模式/条带趋势，可为抗体特异性提供有力证据。



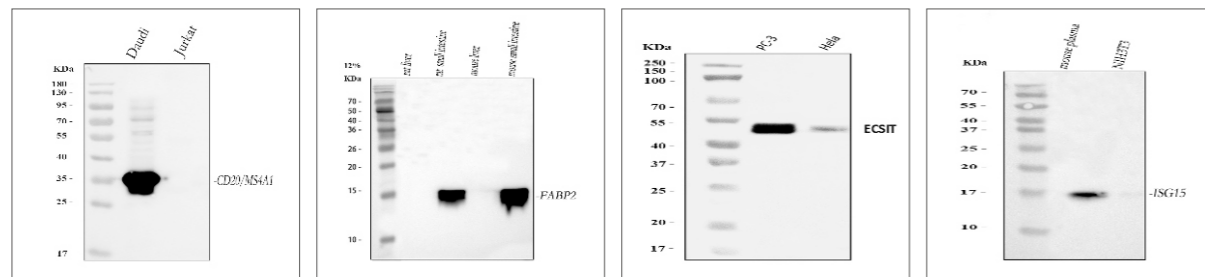
细胞处理验证 (富集/去除/移位)

通过处理细胞使目标蛋白发生富集、降低或定位变化，观察抗体信号是否按预期同步改变，用于验证特异性。



内源性表达差异样本对照

使用内源性表达目标蛋白的细胞/组织作为阳性对照，并对比两类天然表达差异样本（高 vs 低/无表达），可快速判断抗原识别特异性。



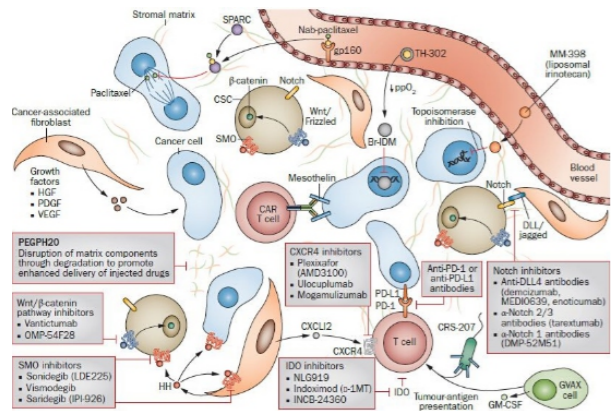
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第一章 癌症疾病

一. 肿瘤研究靶点

肿瘤传统分型加基因分型决定治疗方案：肿瘤传统分型中先以肿瘤发生部位分型例如肺癌、胰腺癌、肝癌；然后以每个部位肿瘤的发生特征进行分型，如肺癌可以分为非小细胞肺癌和小细胞肺癌等。随着靶向治疗的崛起，肿瘤用药指南中也更加注重某些突变基因的检测，在不同的基因突变中，推荐的治疗方案也不同。这意味着我们在做投资研究中更应该关注靶点研究，而不是单看药物的疗效和适应症。例如PD-1、PD-L1之所以成为一个非常有潜力的靶点，不光是其疗效突出，还因为PD-1、PD-L1是癌症治疗的广谱靶点，近几年连续突破非小细胞肺癌，肝癌等病症中疗效显著。



产品名称	货号	应用种属	应用范围
CD86	BM4121	human,rat	WB,IHC,FCM,ICC/IF,IP
	A00220-3	human	WB,ICC/IF,FCM,ELISA
	A00220-4	mouse,rat	WB,IHC,FCM,ELISA
BCL2	A00040-2	human	WB,ICC/IF,FCM,ELISA
	A00040-1	human,mouse,rat	WB,IHC,FCM
	A00040-Dyl488	human	FCM
CD19	PB9800	human	WB,IHC
	A00154-4	rat	IHC,ELISA
CD20	A03780-2	human	WB,IHC,FCM,ELISA
	PB9050	human	WB,IHC,IF,FCM
	A03780-3	mouse	WB,IHC,FCM,ELISA
	M03780-3	human,mouse,monkey	WB,IHC
CD3G	A04853-2	human	WB,ICC/IF,FCM,ELISA
CD31	A01513-3	human,mouse,rat	WB,IHC,ELISA
	A01513-2	mouse,rat	WB,FCM,ELISA
	BM4213	human	WB,IHC,IP,FCM
	BA1346	human	WB,IHC,IF,FCM
CD3E	PB9093	human,chicken,mouse,rat	WB,IHC,ICC/IF,IF
	BM4420	human	WB,IHC,IP,FCM
CD68	BM4593	human,mouse,rat	WB
	BA3638	mouse,rat	WB,IHC,IF,FCM
	BA3639	human	WB,IHC

产品名称	货号	应用种属	应用范围
CD68	BM5785	human	IF,IHC
CTLA4	BM5388	human,mouse,rat	WB,ICC/IF
	A00020-2	human	IHC,ELISA
	A00020-1	mouse,rat	WB,IHC,ELISA
	A00031-4	human,mouse,rat	WB,FCM,ELISA
EGFR	PA1237	human,mouse,rat	WB,IHC
	A00023-5	human	WB,IHC,ICC/IF,FCM,ELISA
	A00023-2	mouse,rat	WB,IHC,FCM,ELISA
	PB0905	human,mouse	WB
ERBB2	A00023	human	WB,IHC,FCM
	A00010-2	human	WB,IHC
IL2	A00010-5	human	WB,IHC,FCM,ELISA
	A00010-4	human,mouse	WB,IHC,ELISA
	A00387-1	human	WB,ELISA
IL6	PB0059	rat	WB
	BA3709	mouse	WB,ELISA
	BA1645-1	mouse,rat	IHC
IL8	BA1644-1	human	IHC
	BA0562-2	human	WB
	A00102-2	mouse,rat	WB,ELISA
Ki67	BA4339	mouse,rat	WB,IHC
	MA00102	human	WB,IHC,IF
MIP-2	PB0685	human	WB,IHC,ELISA
	A00254	human,mouse,rat	IHC,ELISA
mTOR	M00254-9	human	WB,IHC,ICC/IF,FCM
	PB0899	human	WB,ELISA
P53	PB0900	mouse,rat	WB,ELISA
	BM4182	human,mouse,rat	WB,IHC,ICC/IF
PARP1	A00003-2	human,monkey	WB,IHC,ELISA
	M00001-6	human	WB,IHC,IF,FCM
PD-1	BM3987	human	WB,ICC/IF
	BM4095	human,mouse,rat	WB,IHC,ICC/IF,IP
PD-L1	PB9309	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
	M00122-5	human,mouse,rat	WB,IHC,ICC/IF,FCM
PD-L2	M00122-4	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00178	mouse,rat	WB,IHC,IF,FCM
TNF Alpha	MA00178-1	human,mouse	WB,IF,FCM
	MA00178	human	WB,IHC,IF,FCM
VEGFR2	BM4816	human,mouse,rat	WB,IHC
	PB0166	human	WB,FCM
CD33	BA1684	human,mouse,rat	WB,IHC
	M03295-2	human	WB,FCM
CD39	BA0290	human,mouse,rat,rabbit	WB,IHC
	MA00019	human,mouse,rat	WB,IF
CD40	A00002-5	mouse,rat	WB,ICC/IF,FCM,ELISA
	BA0131	human,mouse,rat	WB,IHC,FCM
CD44	BA0472	human	WB,IHC,ICC/IF
	A00901-3	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA

二. 肿瘤诊断

肿瘤分子诊断是指以核酸或蛋白为核心的分子生物学诊断技术，是进行肿瘤早期诊断的重要方法。通过检测与肿瘤发生相关的生物大分子，进行肿瘤发生的预测、诊断，并可以对肿瘤治疗效果进行评价，为肿瘤的预后和转归提供参考。肿瘤标志物是指由恶性肿瘤产生或由肿瘤刺激宿主细胞产生，可反映恶性肿瘤的发生、发展及对抗肿瘤治疗反应的物质。其在细胞中表达水平的高低或在体液中含量的变化与肿瘤的发生、发展与转化密切相关。目前已发现的肿瘤标志物包括胚胎蛋白类、糖蛋白类、酶和同工酶类、激素类、特殊蛋白类及癌基因蛋白类等。肿瘤标志物的检测可用以下方法：免疫组织化学方法、酶联免疫吸附试验、免疫印迹技术、流式细胞术、蛋白质芯片、组织芯片、放射免疫分析技术、免疫电泳技术、凋亡细胞检测、生物质谱技术等。



产品名称	货号	应用种属	应用范围
AFP	BM4976	human	WB,IHC,ICC/IF,IP,FCM
	A00522	mouse,rat	WB,ELISA
Beta-2 Microglobulin	A00456-2	mouse,rat	WB,ICC/IF,FCM,ELISA
	BM4209	human,mouse,rat	WB,ICC/IF,IP
	M00456-2	human,monkey	WB,IHC,ICC/IF,FCM
beta-HCG	BM0066	human	IHC
MUC16	BM5743	human	WB,IHC
	BM4575	human	WB,ICC/IF,FCM
CEACAM5	A00356	human,mouse,rat	WB,IHC,ELISA
	A00356-2	human	WB,FCM,ELISA
Cytokeratin 19	PB9715	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
	BM4188	human,mouse	WB,IHC,ICC/IF,FCM
	M02101-7	human	WB,IHC,ICC/IF,IP,FCM
He4	M02101-6	human,rat,monkey	WB,IHC,ICC/IF
	A02685-3	mouse,rat	WB,IHC
NSE	PB0995	human	WB,ELISA
	A02930	human,mouse,rat	WB,IHC
PSA	BM4495	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A01505-3	human	WB,IHC,ELISA

三. 肺癌相关

肺癌是发病率和死亡率增长最快，对人群健康和生命威胁最大的恶性肿瘤之一。近50年来许多国家都报道肺癌的发病率和死亡率均明显增

高，男性肺癌发病率和死亡率均占所有恶性肿瘤的第一位，女性发病率占第二位，死亡率占第二位。，因早期没有明显的临床特征，导致发现和诊断异常困难。基于循环肿瘤抗体（Circulating Antibody）分子生物学方法的“7种自身抗体检测”，其技术核心是肿瘤免疫应答，检测早期肺癌的7种自身抗体，来达到早期肺癌诊断的目的，并且也已成为国际上肿瘤早期诊断临床应用的技术发展趋势。



产品名称	货号	应用种属	应用范围
Caveolin-1	PB9165	human,mouse,rat	WB,IHC,IF,FCM
	BM3927	human	WB,IHC,ICC/IF
COX	A00084-2	human,mouse	WB,FCM,ELISA
	BM4419	human,mouse	WB,ICC/IF
	BA3708	human,mouse	WB,IHC
	M00084-5	human,mouse,rat	WB
Cyclin D1	BA0770-2	human,rat	WB,FCM
	BM4272	human,mouse,rat	WB,IHC,ICC/IF,IP
Cytokeratin 5	BM4027	human,mouse	WB,IHC,ICC/IF
	M00398-6	human	WB,IHC,IF,ICC/IF,FCM
	M00398-8	human,mouse,rat	WB,IHC
EGFR	A00023-4	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA
	BM4009	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
EGFR(Phospho-Y1068)	BM4676	human	WB,ICC/IF,IP,FCM
FOXA1	BM4930	human,mouse,rat	WB,IHC,ICC/IF
GATA3	A00593-1	human	WB,IHC,ICC/IF,FCM
	PB0195	human,mouse,rat	WB
GATA3(Phospho-S308)	MA00593	human,mouse,rat	IHC
	BM4347	human	WB,IHC,IP
GSTP1	PB9184	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM3892	Allspecies	WB,ICC/IF,IP
	A00394-1	human,mouse,rat	WB,IHC,IF,ELISA
ERBB2	BM4094	human	WB,IHC,ICC/IF,IP,FCM
	MA00010	human,mouse,rat	WB,IHC,IF,FCM
ERBB2(Phospho-Y1139)	P00010-1	human	WB,IP
Ki67	A00254	human,mouse,rat	IHC,ELISA
	M00254-9	human	WB,IHC,ICC/IF,FCM
NSE	BM4495	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM4309	human,mouse,rat	WB,ICC/IF,IP
P53	M00001-6	human	WB,IHC,IF,FCM

产品名称	货号	应用种属	应用范围
P53(Phospho-S33)	BM3987	human	WB,IHC,IF
P53(Phospho-S392)	BM4095	human,mouse,rat	WB,IHC,ICC/IF,IP
P-Cadherin	A03353-1	human,mouse,rat	WB,ICC/IF,FCM,ELISA
	BA0674	human	WB,IHC,ICC/IF
	M03353-1	human	WB,IHC,IF
PD-L1	BM4816	human,mouse,rat	WB,IHC
	PB0166	human	WB,FCM
UCHL1	BM4990	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	M01018-7	human,monkey,mouse,rat	WB,IHC,FCM
PPAR Gamma	A00449-2	human,mouse,rat	WB,FCM
	A00449-3	human	WB,ICC/IF,FCM,ELISA
	BA1693-1	human,mouse,rat	IHC
SOX2	BA3292	human,mouse,rat	WB,IHC
	BM4147	human,mouse	WB,IHC,ICC/IF
Survivin	A00379	human,mouse,rat	WB,IHC,ELISA
	BM3975	human	WB,IHC,ICC/IF,IP,FCM
	BM4334	mouse,rat	WB,IHC
TTF-1	BM4154	human,mouse,rat	WB,IHC,ICC/IF,FCM

四. 肠癌相关

大肠癌是常见的恶性肿瘤，包括结肠癌和直肠癌。大肠癌的发病率从高到低依次为直肠、乙状结肠、盲肠、升结肠、降结肠及横结肠，近年有向近端（右半结肠）发展的趋势。其发病与生活方式、遗传、大肠腺瘤等关系密切。活体组织检查对大肠癌，尤其是早期癌和息肉癌变的确诊以及对病变进行鉴别诊断有决定性意义，可明确肿瘤的性质、组织学类型及恶性程度、判断预后和指导临床治疗。



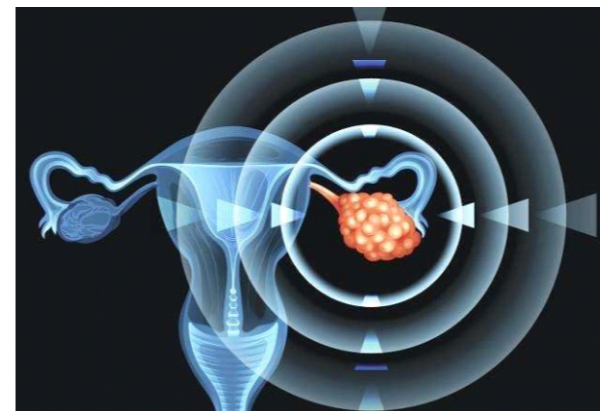
产品名称	货号	应用种属	应用范围
APC	BM4480	human, rat	WB, IHC, ICC/IF, IP
	M00008-2	human, mouse, rat	WB, IHC
CA2	M00143	human, mouse, rat	WB, IHC, ICC/IF, FCM
	PB1045	human, mouse, rat	WB, IHC, ICC/IF, FCM
Calbindin	A03047	human, mouse, rat	WB, IHC, IF, FCM, ELISA
	BM0203	human, bovine, mouse, rat	WB, IHC, IF
CD326	A00276-2	mouse, rat	WB, IHC, IF, FCM, ELISA
	PB10059	human	WB, IHC, IF, FCM, ELISA

产品名称	货号	应用种属	应用范围
CD326	BM4250	human, mouse, rat	WB
CD44	A00052	human, mouse, rat	WB, IHC, IF, FCM, ELISA
	M00052-4	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
	PB9333	human, rat	WB, IHC, IF
	M00052-3	human, rat	WB, ICC/IF, FCM
c-Kit	PB9258	human	WB, IHC, FCM
GSTT1	A01084	human, mouse, rat	WB, ELISA
IGFBP2	A01373-2	mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
	A01373-1	human	WB, IHC, ELISA
IL6	BA4339	mouse, rat	WB, IHC
	MA00102	human	WB, IHC, IF
JUNB	A01825-2	human	WB, IHC, FCM, ELISA
	A01825-3	human, mouse, rat	WB, IHC, FCM, ELISA
	BM4730	human, mouse, rat	WB, ICC/IF, IP
MCM2	A00374-1	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
	BM4086	human, mouse, rat	WB, IHC, ICC/IF
	M00374-2	human	WB, IHC, ICC/IF, IP, FCM
MCM2(Phospho-S27)	P00374	human, mouse, rat	WB, IHC, ICC/IF, IP
MCM7	M01649-3	human, rat	WB, IHC, ICC/IF, FCM
	PA1792	human	WB, IHC, FCM, ICC/IF
	PB9261	human, mouse, rat	WB, IHC, ICC, IF, ICC/IF, FCM
	BM5337	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
MLH1	BM4007	human, mouse, rat	WB, IHC, FCM, ICC/IF, IP
	A00126-1	human	WB, IHC
MSH2	PB0316	human, mouse, rat	WB, IHC, IHC, ICC/IF, FCM
	M00140-5	human	WB, IHC, ICC/IF
MSH6	A00553-3	human	WB, ICC/IF, FCM, ELISA
	M00553-2	human, mouse, rat	WB, IHC
MTA1	BA2749	human, mouse, rat	WB, IHC
NKCC2	PB9392	human, monkey, mouse, rat	WB, IHC
	BA3213	human, mouse, rat	WB, IHC
P53	BM4309	human, mouse, rat	WB, ICC/IF, IP
	M00001-6	human	WB, IHC, IF, FCM
P53(Phospho-S33)	BM3987	human	WB, ICC/IF
P53(Phospho-S392)	BM4095	human, mouse, rat	WB, IHC, ICC/IF, IP
PDGFR alpha /PDGFRA	A00366	human, mouse, rat	WB, ICC/IF, ELISA
	PB0822	human, mouse, rat	WB, IHC
PDK1	A01268-3	human, mouse, rat	WB, FCM, ELISA
	BM5198	human, mouse, rat	WB, IP
PDPK1	BM4670	human, mouse, rat	WB, IHC, ICC/IF
PKM2	PB9379	human, mouse, rat	WB, IHC, ICC/IF
	M01173-1	human	WB, IHC, ICC/IF, FCM
	A01173-2	human, mouse	WB, IHC, ICC/IF, IP, ELISA
VEGF	BA0407	human, mouse, rat	WB, IHC, FCM
	BM3995	human, mouse	IHC, ICC/IF, IP, FCM
	MA00045	human, dog	WB, IHC, ICC/IF

五. 卵巢癌相关

卵巢恶性肿瘤是女性生殖器官常见的恶性肿瘤之一，发病率仅次于子宫颈癌和子宫体癌。卵巢恶性肿瘤中以上皮癌最多见，其次是恶性生

殖细胞肿瘤。其中卵巢上皮癌死亡率占各类妇科肿瘤的首位，对女性生命造成严重威胁。由于卵巢深居盆腔，体积小，缺乏典型症状，难以早期发现。卵巢上皮癌患者手术中发现肿瘤局限于卵巢的仅占不足30%，大多数已扩散到盆腔腔器官，所以早期诊断是一大难题。一般以检测肿瘤标记物来作为辅助筛查手段，如CA12-5（卵巢上皮性癌的标记物）；AFP（甲胎蛋白，对内胚窦瘤有特异性价值）；CA199、CEA（在粘液性卵巢癌中常升高）等。

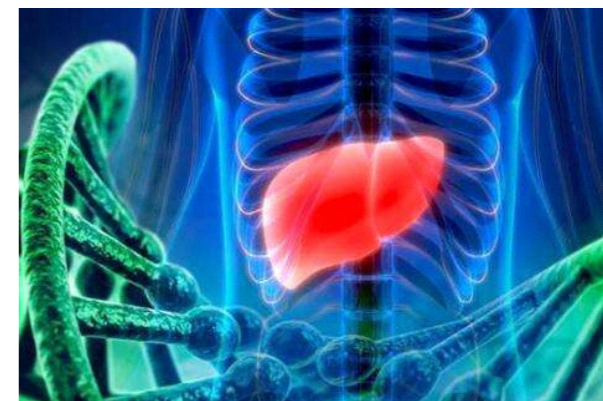


产品名称	货号	应用种属	应用范围
BCL2	A00040-2	human	WB, ICC/IF, FCM, ELISA
	A00040-1	human, mouse, rat	WB, IHC, FCM
	A00040-Dyl488	human	FCM
	A00040-Dyl550	human	FCM
BRCA1	A00005-2	human	WB, FCM, ELISA
	PB9015	human, mouse, rat	WB, IHC, FCM
BRCA2	BA0668	human, mouse, rat	WB, IHC
MUC16	BM5743	human	WB, IHC
	BM4575	human	WB, ICC/IF, FCM
Cytokeratin 20	A02828-2	human, mouse, rat	WB, IHC, FCM, ICC/IF, ELISA
	A02416-2	human	WB, IHC
Cytokeratin 7	BM4622	human, mouse, rat	WB, IHC, ICC/IF
	BM1618	human	WB, IHC
ESR1	M00057-4	human	WB, IHC, ICC/IF, FCM, CHIP
ESR1(Phospho-S118)	MA00057	human, mouse, rat	WB, IHC
	BM4463	human	WB, IHC, ICC/IF
ERCC3	A03103-2	human	WB, FCM, ELISA
	A03103-1	human, mouse, rat	WB, ELISA
WFDC2	A02685-4	human, mouse, rat	WB, IHC, ELISA
	BM4894	human, mouse	WB, ICC/IF, IP, FCM
ERBB2	BM4094	human	WB, IHC, ICC/IF, IP, FCM
	A00010-4	human, mouse	WB, IHC, ELISA
	MA00010	human, mouse, rat	WB, IHC, IF, FCM
ERBB2(Phospho-Y110)	P00010-1	human	WB, IP
	A01373-2	mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
IGFBP2	A01373-1	human	WB, IHC, ELISA(Cap)
	M01373	human, mouse, rat	WB, FCM
NME1	BA3787	human, mouse, rat	WB, IHC, ICC/IF, FCM

产品名称	货号	应用种属	应用范围
P14arf	BM5610	human	WB
p16INK4a	A00016-5	human	WB, IHC, ICC/IF, IP, FCM
	PB9008	human	WB, IHC, ICC/IF, FCM
	BM4026	human	WB, IHC, ICC/IF, IP
	M00001-6	human	WB, IHC, IF, FCM
P53	BM4309	human, mouse, rat	WB, ICC/IF, IP
	M00001-6	human	WB, IHC, IF, FCM
P53(Phospho-S392)	BM4095	human, mouse, rat	WB, IHC, ICC/IF, IP
P53(Phospho-S9)	BM3993	human	WB
PAX6	BM4746	human, mouse, rat	WB, IHC, ICC/IF
	A00273-2	human, mouse	WB, IHC, ICC/IF, FCM, ELISA
PD-1	A00178	mouse, rat	WB, IHC, IF, FCM
	MA00178-1	human, mouse	WB, IF, FCM
PGR	MA00178	human	WB, IHC, IF, FCM
	BM4429	human	WB, IHC, ICC/IF, IP
Vimentin	PB9009	human	WB, IHC, ICC/IF
	BA0106-2	human	WB, IHC
Vimentin(Phospho-S2)	BM4029	human, mouse, rat	WB, IHC, ICC/IF
	BM0135	human, rat, rabbit, pig	WB, IHC, IF
	PB9359	human, mouse, rat	WB, IHC, IF
WT1	BM4216	human, mouse	WB, IHC, ICC/IF, FCM

六. 肝脏疾病相关

肝脏疾病是发生在肝脏的所有疾病的总称。包括感染性疾病、肿瘤性疾病、血管性疾病、代谢性疾病、中毒性疾病、自身免疫性疾病、遗传性疾病、肝内胆管结石病等。感染性疾病又包括病毒感染、细菌感染、寄生虫感染等，如病毒性肝炎、肝包虫病等。肿瘤分为良性肿瘤和恶性肿瘤，如肝癌、肝血管瘤、脂肪肝、肝肉瘤等。实验室检查可发现肝功能异常，超声检查、CT检查、磁共振成像检查都可确切了解对肝脏的外形、边界、表面光滑度、肝内囊肿性质、肝内结节性质等。组织病理学和细胞病理学检查可对肝穿刺和腹水穿刺的穿刺物做定性诊断。



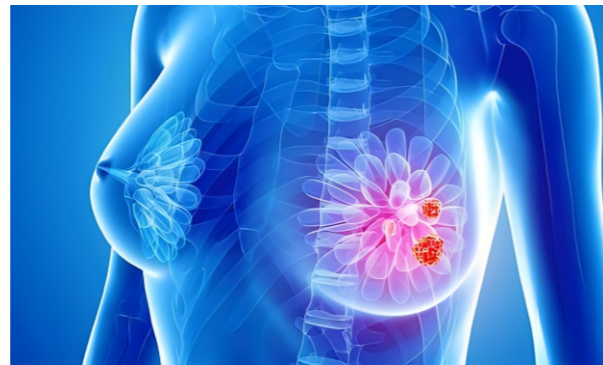
产品名称	货号	应用种属	应用范围
ABCB4	PB9275	human, mouse, rat	WB, IHC, FCM
AFP	BM4976	human	WB, IHC, ICC/IF, IP, FCM

产品名称	货号	应用种属	应用范围
AFP	A00522	mouse, rat	WB, ELISA
	A00522-3	human	WB, ELISA
	M00522-4	human	WB, IHC, IF
Arginase-1	A01106	human, monkey, mouse, rat	WB, IHC, ELISA
	BM4000	human, mouse, rat	WB, IP
a-SMA	MA01106	human, mouse, rat	WB, IHC, FCM
	BM4172	human, mouse, rat	WB, IHC, ICC/IF, FCM
CTNNB1	BM0002	human, mouse, rat	WB, IHC, IF
	A00004	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
CTNNB1(PhosphoS33/S37)	M00004-2	human, mouse, rat	WB, IHC, ICC/IF, FCM
	BM4810	human, rat	WB
CD31	A01513-3	human, mouse, rat	WB, IHC, ELISA
	A01513-2	mouse, rat	WB, FCM, ELISA
	BM4213	human	WB, IHC, IP, FCM
	BA1346	human	WB, IHC, IF, FCM
CD34	BA0532	human, mouse, rat	WB, IHC, FCM
	PB9053	human, rat	WB, IHC, IF, ELISA
	BM4082	human, mouse, rat, dog	WB, IHC, ICC/IF, IP
Cytokeratin 7	A02416-2	human	WB, IHC
	BM4622	human, mouse, rat	WB, IHC, ICC/IF
	BM1618	human	WB, IHC
Desmin	BM4101	human, mouse, rat	WB, IHC, ICC/IF
	PB9105	human, mouse, rat	WB, IHC, IF
	M01948-3	human, mouse, rat	WB, IHC, FCM
	BM0036	human, mouse, rat, rabbit	WB, IHC
E-cadherin	PB9561	human, mouse, rat	WB, IHC, ICC/IF, IP
	BM4166	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
	BA0475	human	WB
	M00063-2	human	WB, IHC, IF, ICC/IF, FCM
Glutamine Synthetase	A03191-3	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
	M03191-1	human, mouse, rat	WB, IHC, IF, FCM
Glypican 3	BM5190	human	WB, FCM
	A01922-2	human	WB, FCM, ELISA
GSTA1/A2/A3/A4/A5	PB0671	human, mouse, rat	WB, IHC, IF
	A01462-1	human, mouse, rat	WB, IHC, ELISA
HGF	MA00089	human, mouse, rat	WB, IHC
HNF4A	PB9215	human, mouse, rat	WB, IHC, ICC/IF, FCM
	M00389-3	human, mouse, rat	WB, IHC, IP, CHIP
	M00389-4	human, mouse, rat	WB, IHC, ICC/IF, FCM
HSP70	PB9638	human, mouse, rat	WB, IHC, ICC/IF, FCM
	M00949-2	human	WB, IHC, ICC/IF, FCM
HSP70	BM0368	human, mouse, rat	WB, IHC
	MA00949	human, mouse, rat, monkey	WB, IHC, ICC/IF, FCM
S100A6	PB0716	human, mouse, rat	WB, IHC, ICC/IF, FCM
	BM4902	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
SMAD3	BM3919	human, mouse, rat	WB, IHC, ICC/IF, FCM
SOD1	PB0453	human, mouse, rat	WB, IHC, ICC/IF, FCM
	BA1401	human, mouse, rat	WB, IHC, ICC/IF
SOD2	PB9442	human, mouse, rat	WB, IHC, ICC/IF
	BA4566	human, mouse, rat	WB, IHC, ICC/IF

产品名称	货号	应用种属	应用范围
SOD3	A01784-4	human, mouse, rat	WB, ELISA
	A01784-5	mouse, rat	WB, ELISA
TGF Beta 1	BA0290	human, mouse, rat, rabbit	WB, IHC
	MA00019	human, mouse, rat	WB, IF
TGF Beta 2	A00892-1	human	WB, IHC
TGF Beta 3	A01264	human, mouse, rat	IHC
TTF-1	BM4154	human, mouse, rat	WB, IHC, ICC/IF, FCM
	M01322-4	human, mouse, rat	WB, IHC
Vimentin	PB9359	human, mouse, rat	WB, IHC, IF
	BM4029	human, mouse, rat	WB, IHC, ICC/IF
Vimentin(Phospho-S72)	BM0135	human, rat, rabbit, pig	WB, IHC, IF
	BM3998	human, mouse, rat	WB, IP

七. 乳腺癌相关

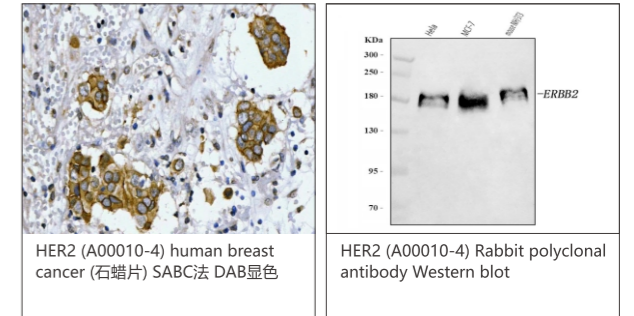
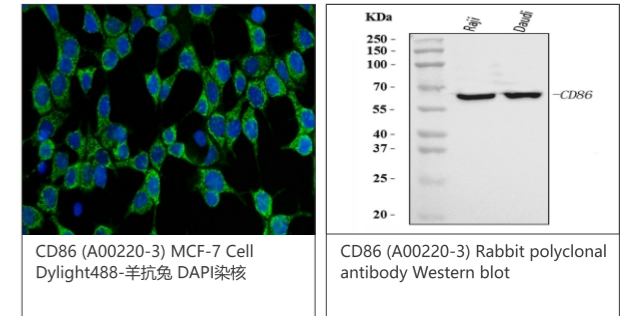
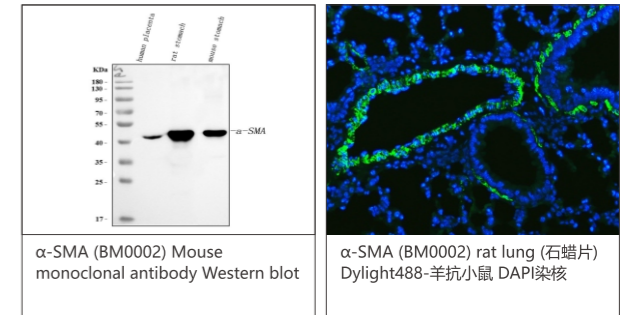
乳腺癌 (breast carcinoma, BC) 是乳腺上皮细胞在多种致癌因子的作用下, 发生增殖失控的现象。据资料统计, 发病率占全身各种恶性肿瘤的7-10%。它的发病常与遗传有关, 以及40—60岁间、绝经期前后的妇女发病率较高。其常被称为“粉红杀手”, 在全球女性癌症中的发病率为24.2%, 位居女性癌症的首位。截止目前, 乳腺癌的病因尚不清楚, 到目前为止科学家还未找到乳腺癌的确切致癌原因。

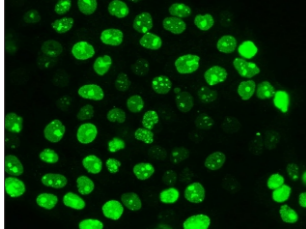
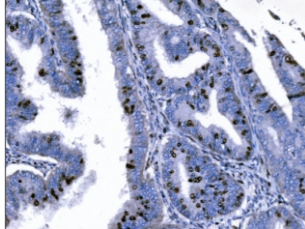
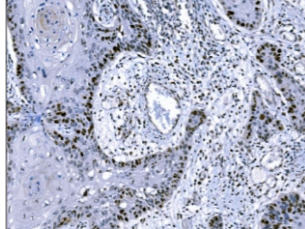
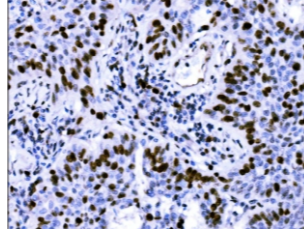
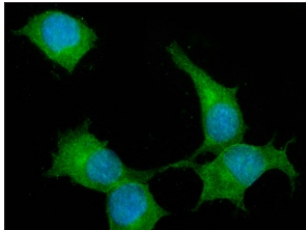
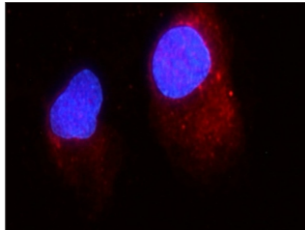
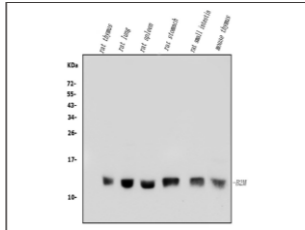
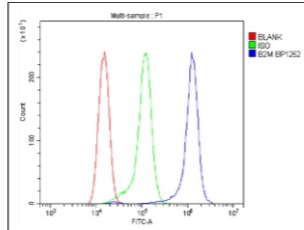
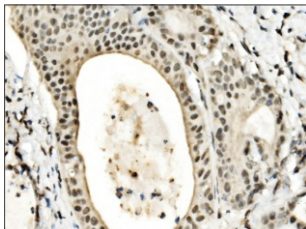
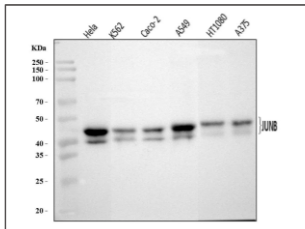
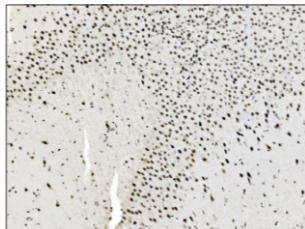
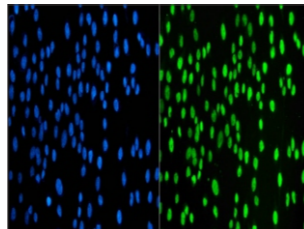
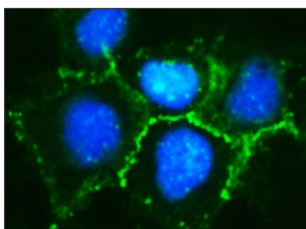
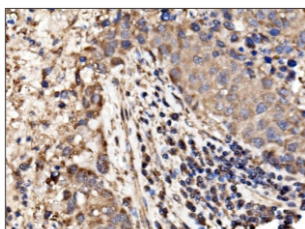
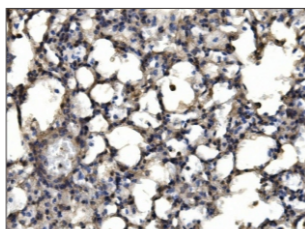
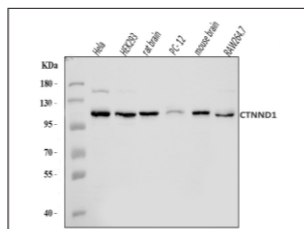
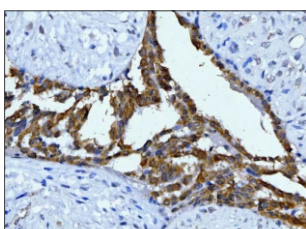
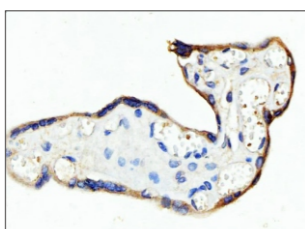
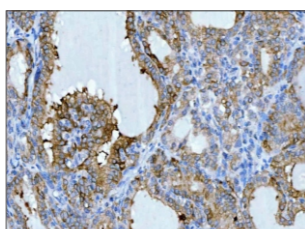
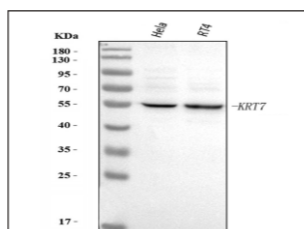


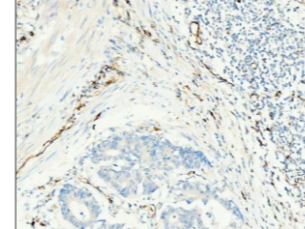
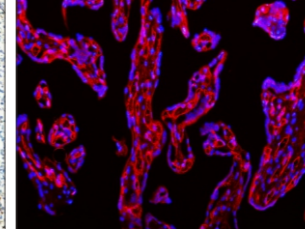
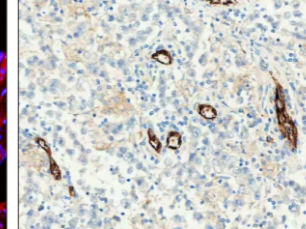
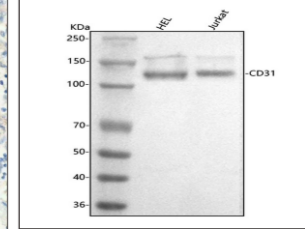
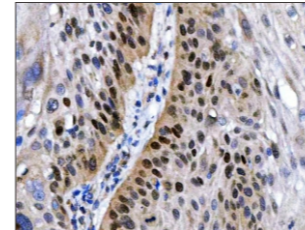
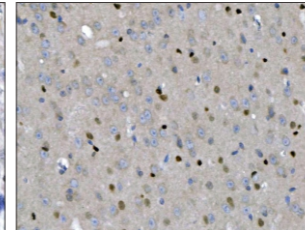
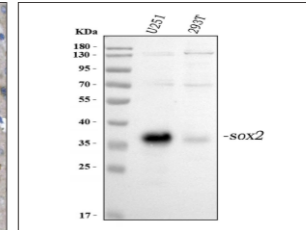
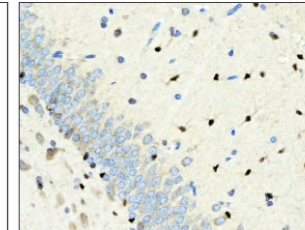
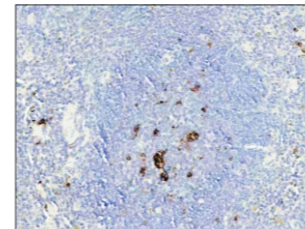
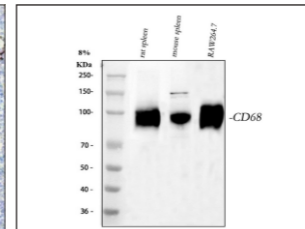
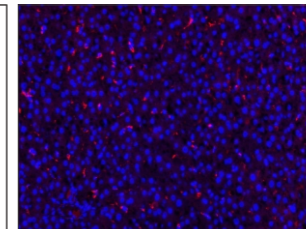
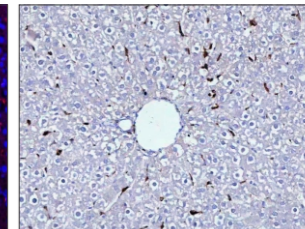
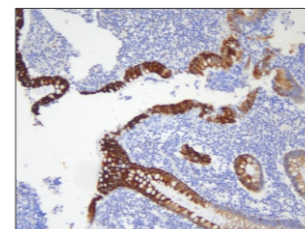
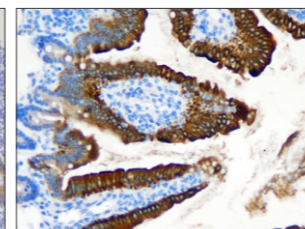
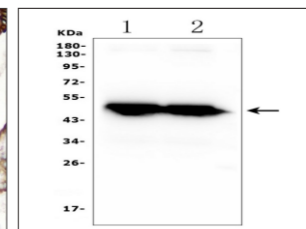
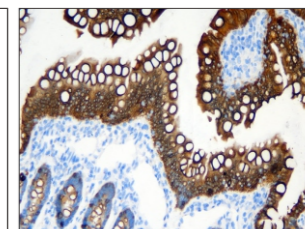
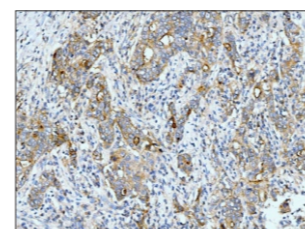
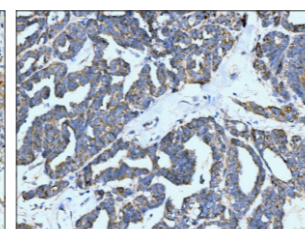
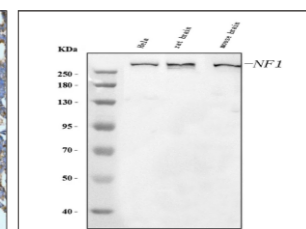
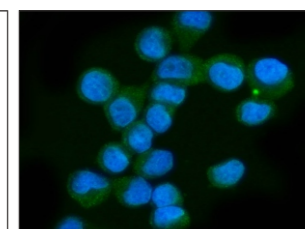
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BARD1	A01646-2	human	WB, FCM, ELISA
BRCA1	A00005-2	human	WB, FCM, ELISA
	PB9015	human	WB, IHC, FCM
	BA0418	human, mouse, rat	WB, IHC
	A00005	human	WB
BRCA2	M00005-1	human	WB, IHC
	BA0668	human, mouse, rat	WB, IHC
Calponin	BM4088	human, mouse, rat, dog, pig	WB, IHC, ICC/IF
	BA0680	human, mouse, rat, dog, pig	IHC, WB
Caveolin-1	PA1514	human, rat, mouse	WB, IHC, IF, FCM
	PB9165	human, mouse, rat	WB, IHC, IF, FCM
	M00179-1	human	WB, IHC, IF
COMT	PB9539	human, mouse, rat	WB, IHC, ICC/IF
	M00464-2	human, mouse, rat	WB, IHC, ICC/IF, FCM
CTNNB	A00004	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA

产品名称	货号	应用种属	应用范围
CTNNB	BA0426	human, mouse, rat	WB, IHC, ICC/IF
	M00004-2	human, mouse, rat	WB, IHC, ICC/IF, FCM
Cyclin D1	BM4272	human, mouse, rat	WB, IHC, ICC/IF, IP
	BA0770	human, mouse, rat	WB
	PB0403	human, mouse, rat	WB
	BA0770-2	human, rat	WB, FCM
	M00149-4	human, mouse, rat	WB
Cytokeratin 200	BM4207	human, rat	WB, IHC, ICC/IF
	A02828-2	human, mouse, rat	WB, IHC, FCM, ICC/IF, ELISA
	M02828-2	human	WB, IHC
Cytokeratin 7	A02416-2	human	WB, IHC
	BM4622	human, mouse, rat	WB, IHC, ICC/IF
E-cadherin	PB9561	human, mouse, rat	WB, IHC, ICC/IF, IP
	BM4166	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
	BA0475	human	WB
	M00063-2	human	WB, IHC, ICC/IF, FCM
EGFR	A00023-2	human, rat	WB, IHC, FCM, ELISA
	A00023-5	human	WB, IHC, ICC/IF, FCM, ELISA
	A00023-4	human, mouse, rat	WB, IHC, ICC/IF, IF, FCM, ELISA
	PB0905	human, mouse	WB
	PB0039	human, rat	WB, ICC/IF
ESR1	BM4009	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
	PB0188	human	WB, IHC
	M00057-4	human	WB, IHC, ICC/IF, FCM, CHIP
FOXA1	BM4930	human, mouse, rat	WB, IHC, ICC/IF
	A00266-1	human, mouse, rat	WB, ELISA
GATA3	M00266-3	human, mouse, rat, dog	WB
	A00593-1	human	WB, IHC, ICC/IF, FCM
	BM5108	human	WB, IHC, ICC/IF, FCM
GATA3(Phospho-S308)	PB0195	human, mouse, rat	WB
	BM4347	human	WB, IHC, IP
ERBB2	BM4094	human	WB, IHC, ICC/IF, IP, FCM
	A00010-2	human	WB, IHC
	A00010-5	human	WB, IHC, FCM, ELISA
	A00010-4	human, mouse	WB, IHC, ELISA
	MA00010	human, mouse, rat	WB, IHC, IF, FCM
ERBB2(Phospho-Y1139)	P00010-1	human	WB, IP
Ki67	PB9026	human	WB, IHC, ICC
	A00254	human, mouse, rat	WB, IHC, ELISA
	M00254-9	human	WB, IHC, ICC/IF, FCM
	M00254-8	human	IHC, ICC/IF, IF, FCM
NF1Antibody	M00043-1	human, mouse, rat	WB, IHC, ICC/IF, FCM
	M00043	human, mouse, rat	WB, IHC, FCM
	A00043-1	human	WB, IHC, ICC/IF, FCM, ELISA
CTNND1	BM3931	human, mouse, rat	WB, IHC, ICC/IF
	A02333-3	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
	A02333-4	human, mouse, rat	WB, FCM, ELISA
	M02333-3	human, mouse, rat	WB, IHC

产品名称	货号	应用种属	应用范围
P53	PB9008	human	WB, IHC, ICC/IF, FCM
	BM3953	human	WB, ICC/IF, IP
	BM4026	human	WB, IHC, ICC/IF, IP
	BM4378	human	WB, IHC, ICC/IF
	A00001-2	human	WB, IHC, FCM, ELISA
	BM0101	human	WB, IHC, IHC-F, ICC
P53(acetyl K370)	M00001-6	human	WB, IHC, IF, FCM
P53(Phospho-S392)	BM4309	human, mouse, rat	WB, ICC/IF, IP
P53(Phospho-T55)	BM4095	human, mouse, rat	WB, IHC, ICC/IF, IP
PALB2	BM4330	human	WB
PGR	A00639-1	human, mouse, rat	WB, FCM, ELISA
	PB9009	human	IHC, WB, ICC/IF
	BM4429	human	WB, IHC, ICC/IF, IP
	BA0106-2	human	WB, IHC
PTEN	M00541-5	human	WB
	BM4698	human, mouse, rat	WB, IHC, ICC/IF
TRPS1	A02328-2	human	WB, IHC, ICC/IF, FCM, ELISA



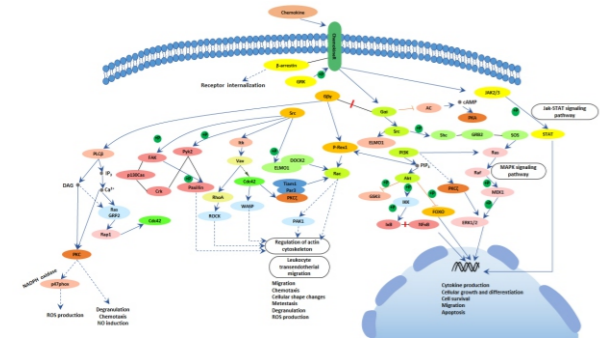
			
Ki67 (M00254-9) A431 Cell Dylight488-羊抗小鼠 DAPI染核	Ki67 (M00254-9) human cervical cancer (石蜡片) SABC法 DAB显色	Ki67 (M00254-9) human esophageal squamous carcinoma (石蜡片) SABC法 DAB显色	Ki67 (M00254-9) human lung cancer (石蜡片) SABC法 DAB显色
			
B2M (A00456-2) Hepa 1-6 Cell Dylight488-羊抗兔 DAPI染核	B2M (A00456-2) NRK Cell Dylight550-羊抗兔 DAPI染核	B2M (A00456-2) Rabbit polyclonal antibody Western blot	B2M (A00456-2) RH-35 Cell by Flow Cytometry
			
JUNB (A01825-3) human Gall bladder adenosquamous carcinoma (石蜡片) SABC法 DAB显色	JUNB (A01825-3) Rabbit polyclonal antibody Western blot	JUNB (A01825-3) rat brain (石蜡片) SABC法 DAB显色	JUNB (A01825-3) SiHa Cell Dylight488-羊抗兔 DAPI染核
			
CTNND1 (A02333-3) A431 Cell Dylight488-羊抗兔 DAPI染核	CTNND1 (A02333-3) human liver cancer (石蜡片) SABC法 DAB显色	CTNND1 (A02333-3) mouse lung (石蜡片) SABC法 DAB显色	CTNND1 (A02333-3) Rabbit polyclonal antibody Western blot
			
KRT7 (A02416-2) human breast cancer (石蜡片) SV法 DAB显色	KRT7 (A02416-2) human placenta (石蜡片) SV法 DAB显色	KRT7 (A02416-2) human thyroid cancer (石蜡片) SV法 DAB显色	KRT7 (A02416-2) Rabbit polyclonal antibody Western blot

			
CD31 (BA1346) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色	CD31 (BA1346) human placenta (石蜡片) Dylight594-羊抗兔 DAPI染核	CD31 (BA1346) human testicular germ cell tumors (石蜡片) SV法 DAB显色	CD31 (BA1346) Rabbit polyclonal antibody Western blot
			
SOX2 (BA3292) human laryngeal squamous cell carcinoma (石蜡片) SABC法 DAB显色	SOX2 (BA3292) mouse brain (石蜡片) SABC法 DAB显色	SOX2 (BA3292) Rabbit polyclonal antibody Western blot	SOX2 (BA3292) rat brain (石蜡片) SABC法 DAB显色
			
CD68 (BA3638) mouse spleen (石蜡片) SV法 DAB显色	CD68 (BA3638) Rabbit polyclonal antibody Western blot	CD68 (BA3638) rat liver (石蜡片) Dylight Cy3-羊抗兔 DAPI染核	CD68 (BA3638) rat liver (石蜡片) SV法 DAB显色
			
KRT20 (A02828-2) human appendix (石蜡片) SABC法 DAB显色	KRT20 (A02828-2) mouse intestine (石蜡片) SABC法 DAB显色	KRT20 (A02828-2) Rabbit polyclonal antibody Western blot	KRT20 (A02828-2) rat intestine (石蜡片) SABC法 DAB显色
			
NF1 (M00043-1) human metaplasia of squamous cells of the renal pelvis (石蜡片) SABC法 DAB显色	NF1 (M00043-1) human ovarian cancer (石蜡片) SABC法 DAB显色	NF1 (M00043-1) Mouse monoclonal antibody Western blot	NF1 (M00043-1) T-47D Cell Dylight488-羊抗小鼠 DAPI染核

第二章 信号通路

一. 趋化因子信号传导通路

趋化因子是一类小分子细胞因子 (~8 kDa) 家族, 其主要功能是吸引免疫细胞到达炎症部位。根据半胱氨酸残基的不同, 可将趋化因子分为四类, 即CXC (α 趋化因子)、CC (β 趋化因子)、CX3C 和 C。趋化因子的受体是A 类GPCR, 但不是所有的受体都对单一配体有选择性。因此, 一种趋化因子可能与多种受体结合, 并对部分结合表现出兴奋作用而对其他结合表现出拮抗作用。部分常见的激活下游通路包括JAK/STAT、Ras、ERK 和Akt。



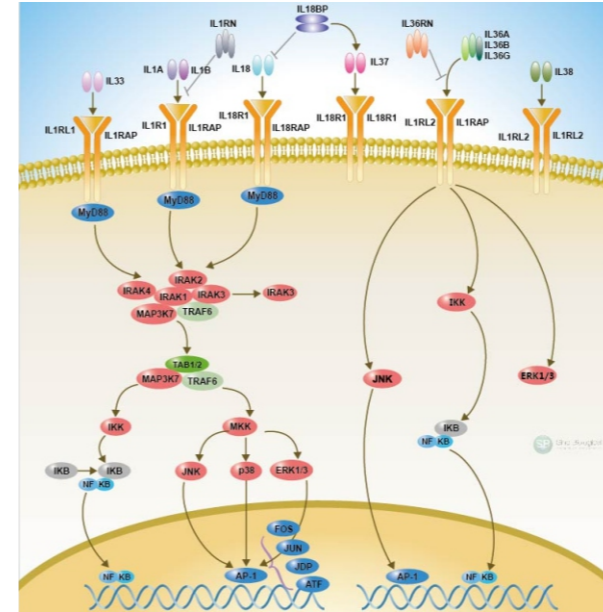
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CXCL13	PB9697	human	WB,ELISA
	PB1043	mouse	WB,IHC,ELISA
CCL6	A30384	mouse,rat	WB,IHC,ELISA
CCL14	A07151-1	human	IHC,ELISA
CCL15	A05563-1	human	IHC,ELISA
CCL16	A07545-1	human	WB,ELISA
CCL21	BA4685	human,mouse,rat	WB,IHC
	M00765	human	WB
CCL23	A05808-1	human	IHC,ELISA
CCL23	M05808	human	WB,ICC/IF
CCR1	PB9991	mouse,rat	WB,IHC,FCM
CCR10	A04731-1	human,mouse,rat	WB,IHC
CCR2	A00158-7	human	WB,IHC,ELISA
	BM3958	human,mouse	IHC,IP,FCM
CCR3	BA0703	human	WB,IHC,ICC/IF
	BM4398	human,mouse,rat	WB,IHC,ICC/IF
CCR4	A00755-4	human,mouse,rat	WB,FCM,ELISA
CCR5	A00061-2	human,mouse,rat	WB,ELISA
CCR6	A00957	human,mouse,rat	IHC
CCR7	A00390-2	human	IHC,FCM,ELISA
	BM4218	human,mouse,rat	WB,IHC,ICC/IF,IP
CCR8	BM5329	human,mouse,rat	WB,ICC/IF
CCR9	BM3962	human,mouse,rat	WB,ICC/IF,FCM
CCR9	BA3125-2	human	WB
CCL27	M05293	human,mouse,rat	WB,ICC/IF,FCM
CXCL1	BA1471-2	human	WB
	A00533	mouse,rat	WB,ELISA
	A00533-2	human	IHC,ELISA

产品名称	货号	应用种属	应用范围
CXCL16	PB1110	human	WB,ELISA
CXCL3	PB0994	mouse,rat	WB,ELISA
CXCL4	BM5269	human,rat	WB,IHC,IP
	PB1063	mouse	WB,IHC,ELISA
CXCL5	PB0901	rat	WB,ELISA
CXCL7	PB0919	human	WB,IHC,ELISA
CXCR1	BA0755-2	human	WB,FCM
CXCR2	A00455-2	human	WB,IHC,FCM,ELISA
CXCR4	PA1237	human,mouse,rat	WB,IHC
CXCR5	BM5719	human,mouse,rat	WB
	A00663-2	human,mouse,rat	WB,FCM,ELISA
CCL11	BA2033-2	mouse,rat	WB
	PB0613	human	WB,ELISA
CCL11	M01438	human	WB
CCL26	PB0041	human	IHC,WB
CX3CL1	BA4112	mouse,rat	WB,IHC
CXCL8	PB0685	human	WB,IHC,ELISA
	M00423-1	human	WB
CXCL10	BA4723	human	WB,IHC
	BM5018	human	WB
CCL2	BA1843-2	human,mouse,rat	WB
	M00056-1	human	WB
CCL8	A03237-2	human,mouse,rat	WB,ELISA
CCL7	PB0068	mouse,rat	WB,ELISA
CCL13	PB0069	human	WB,ELISA
CXCL9	PB0762	human	WB,ELISA
CCL3	PB0024	mouse,rat	WB,ELISA
CCL4	PB0603	human	WB,ELISA
	PB0025	rat	WB
	M00703	human,mouse	WB,ICC/IF,IP
CXCL2	PB0899	human	WB,ELISA
	PB0900	mouse,rat	WB,ELISA
CCL20	A00748-2	mouse,rat	WB,ELISA
CCL19	A01605-2	human	IHC,FCM,ELISA
	A01605-1	mouse,rat	WB
CCL18	PB0023	human	WB,ELISA
CCL5	BM5460	human	WB
	PB0653	human	WB,ELISA
CXCL12	BA1389	human,mouse,rat,rabbit	WB,IHC
CCL17	PB0081	mouse	WB,ELISA
XCL1	BA4399	mouse,rat	WB,IHC
XCR1	A04185-1	human,mouse,rat	WB,IHC,ELISA

二. IL-1 1型受体通路

白细胞介素1 (IL-1) 受体有两种类型, 其中I 型(IL-1RI) 是迄今为止最丰富的类型。IL-1RI 可结合IL-1α 和IL-1β, 以及白细胞介素1 受体拮抗剂IL-1RA。后者是一种天然存在的IL-1 信号传导抑制剂。IL-1 的结合诱导IL-1RI 的构象发生变化, 然后IL-1RI 再与IL-1 受体辅助蛋白(IL-1RAcP) 结合。这种三聚体在细胞膜的胞质面有一个Toll 样结构域, 该结构域可被Toll 相互作用蛋白(TOLLIP) 与白细胞介素-1 受

体激活蛋白激酶(IRAK) 复合物进行识别。IL-1:IL-1RI:IL-1RAcP 三聚体也可招募骨髓分化初级应答基因88 (MyD88), 接着诱导IRAK 进行自身磷酸化, 使其从TOLLIP 与受体复合物中脱离。磷酸化的IRAK 家族成员可促进肿瘤坏死因子相关因子6 (TRAF6) 的寡聚, 从而诱导NF-κB、JNK 和p38 通路的最终激活。

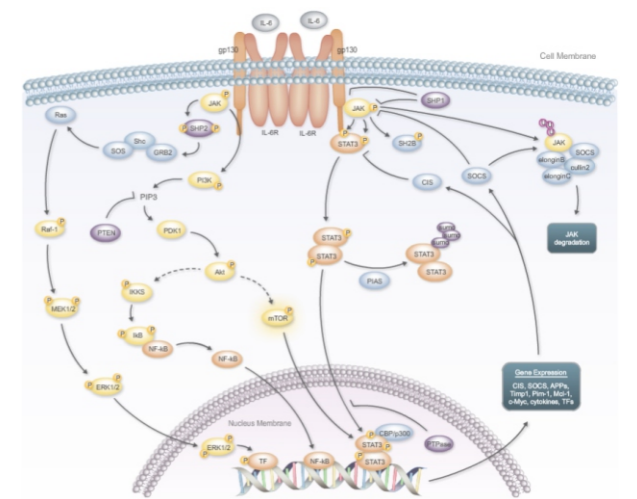


产品名称	货号	应用种属	应用范围
c-Jun (Phospho-S73)+ JunD(Phospho-S100)	P02038-2	human,mouse	WB,IHC,IP
c-Jun	A02038-3	human	WB,IHC,ICC/IF,FCM,ELISA
	BM4168	human,mouse,rat	WB,IHC,ICC/IF,IP
IL-1 beta	A00101	human,mouse,rat	WB
	BM4157	human	WB
	A00101-4	mouse	WB,ELISA
IRAK1	A01021-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM5189	human	WB,ICC/IF,IP
JNK1/2/3	BM4329	human,mouse,rat,cow,dog,monkey,zebrafish	WB,ICC/IF,IP
JNK1	A02608-1	human,mouse	WB,ICC/IF,IP,ELISA
MEK1	BM3948	human,mouse,rat,cow,dog	WB,IHC,ICC/IF
	A00292	human,rat	WB,FCM,ELISA
MEK3/6	BM4711	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
MAP2K3	BM4712	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	PB0815	human,mouse,rat	WB,IHC,ICC/IF,FCM
MAP2K6	A02011-3	human,mouse,rat	WB,ELISA
MYD88	BM4520	human	WB,IHC,ICC/IF,FCM
	BA2321	human,mouse,rat	WB,IHC
NfκB p100/p52	PB9150	human,mouse,rat	WB,IHC
MAPK14	BM5404	human,mouse,rat	WB,ICC/IF,IP
	A00176-2	human,mouse,rat	WB,ICC/IF,FCM
PEBP1	BM4142	human,mouse,rat	WB,ICC/IF,IP,FCM,ChIP
	A01668	human,mouse	WB,IHC,FCM
PEBP1	BM4465	human,mouse,rat	WB,IHC,ICC/IF

产品名称	货号	应用种属	应用范围
PEBP1	BA4736	mouse,rat	WB,IHC
TAB1	A02847-1	human	WB,ELISA
	M02847-2	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
MAP3K7	PB1066	human,mouse,rat	WB,ICC/IF,FCM
	BM5328	human,mouse,rat	WB,IHC,ICC/IF,FCM
MAP3K7(Phospho-S439)	P01458	human,mouse,rat	WB,IP
TOLLIP	A02039-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BA2936	human,mouse,rat	WB,IHC,ICC/IF,FCM
TRAF6	A00185	mouse,rat	WB,IHC,FCM,ELISA
	BM4061	human,mouse,rat	WB,IHC,ICC/IF

三. IL-6 受体通路

白介素6 (IL-6), 也称B 细胞刺激因子(BSF), 最早是作为一种刺激B 细胞分化为免疫球蛋白生产细胞的细胞因子被发现。自发现以来, IL-6 已被证明与一些自身免疫病有关, 包括糖尿病、动脉粥样硬化和风湿性关节炎。经典的IL-6 信号传导通路包括其与膜结合IL-6 受体的结合。这会诱导gp130 的二聚化, 从而激活酪氨酸激酶(JAK)。然后, JAK 会使gp130 胞内结构域上的酪氨酸残基磷酸化, 导致SH2 的招募以及ERK 信号通路的激活。此外, 磷酸化的gp130 可直接招募STAT3, 后者被JAK 磷酸化后可以形成同源二聚体并转位到细胞核, 诱导靶基因的转录。

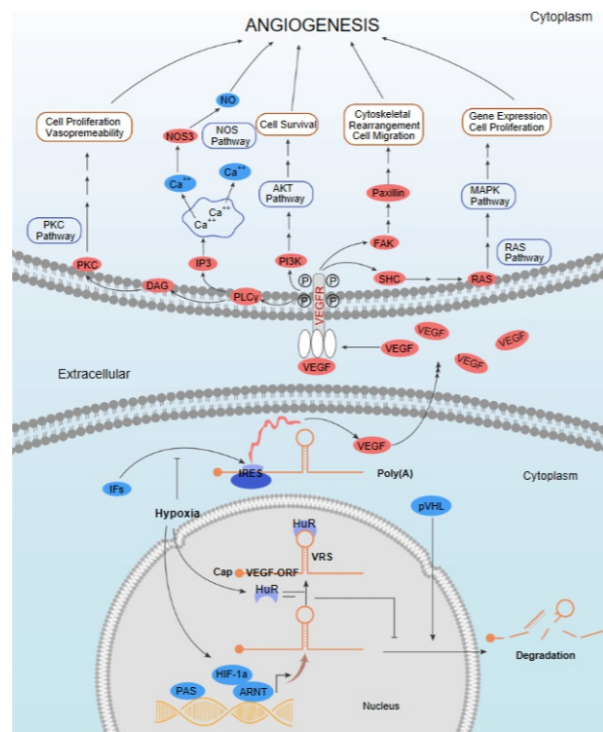


产品名称	货号	应用种属	应用范围
AKT1	BM4390	human,mouse,rat	WB,IHC,ICC/IF,IP
AKT1/2/3	A00024-2	human,mouse,rat	WB,ICC/IF,FCM,ELISA
	BM4400	human,mouse,rat	WB,IHC,ICC/IF
AKT2	BA1512	human,mouse,rat	WB,IHC
AKT2	PB9043	human,mouse,rat	WB,IHC
CBP/EIF4E	A00135-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
CBP/EIF4E(Phospho-S209)	BM4282	human,mouse,rat	WB,IHC,ICC/IF,IP
CUL2	M02986-1	human,mouse,rat	WB,ICC/IF,IP,FCM
	A02986-3	human,mouse,rat	WB,IHC,ELISA
ERK1/2	BM4326	human,mouse,rat	WB,ICC/IF,IP,FCM

产品名称	货号	应用种属	应用范围
GRB2	BM5439	human,mouse,rat	WB
	BA2916-2	human,mouse,rat	WB
	A00351-1	human,mouse,rat	WB,FCM,ELISA
IKB Alpha/NFKBIA	BM3932	human,mouse,rat	WB,IHC,ICC/IF
IKB Beta/NFKBIB	PB9292	human,mouse,rat	WB,IHC
IL6	M00102-2	human	ELISA
	BA4339	mouse,rat	WB,IHC
IL6R	A01425-1	human	WB
	M01425-1	human	WB
JAK1	A00330	human,mouse,rat	WB
JAK2	BM4165	human,mouse,rat	WB,ICC/IF
MEK1/2	BM4055	human,mouse,rat	WB,IHC,ICC/IF,IP
mTOR	BA3116-1	human,mouse,rat	IHC
	BM4182	human,mouse,rat	WB,IHC,ICC/IF
NFkB p100/p52	BM5404	human,mouse,rat	WB,ICC/IF,IP
	PB9150	human,mouse,rat	WB,IHC
PKD1	A01268-3	human,mouse,rat	WB,FCM,ELISA
PDPK1	BM4670	human,mouse,rat	WB,IHC,ICC/IF
PI3 Kinase p110 Beta	BM4459	human	WB,IP,FCM
PI3 Kinase p110 Gamma	A01517-2	human,mouse,rat	WB,IHC,FCM,ELISA
PIAS1	M01707-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
PIAS2	A04130-3	human,mouse,rat	WB,FCM,ELISA
PTEN	A00006-1	human,mouse,rat	WB
PTEN(Phospho-S380)	BM4685	human,mouse,rat	WB,ICC/IF
PTPN6	A00938-3	human,mouse	WB,ICC/IF,FCM,ELISA
	M00938-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
RAF1	A00446-1	human,mouse,rat	WB,FCM
RAF1(Phospho-S259)	BM4780	human,mouse,rat	WB,IHC
PTPN11	M00150-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
	PB9675	human,mouse,rat	WB,IHC
SOCS1	BA2306	human,mouse,rat	WB,IHC
	A00448	human,mouse,rat	WB,IHC
SOCS2	M01584-1	human	WB,ICC/IF,IP
SOS1	BM5105	human,mouse,rat	WB,IHC,ICC/IF
STAT3	BM4052	human,mouse,rat	WB,IHC,ICC/IF,FCM
	PB0540	human,monkey,mouse,rat	WB,IHC
STAT3(Phospho-S727)	BM4169	human,rat	WB,IHC,ICC/IF,IP
STAT3(Phospho-Y705)	BM4835	human,mouse,rat	WB,IHC,ICC/IF
Transferrin	PB9827	human,mouse,rat	WB,IHC
	M00094-4	human	WB,ICC/IF,FCM

四. VEGF信号通路

VEGF信号在血管的形成和生长中起着关键作用。它是由血管内皮生长因子配体与其同源膜结合受体结合，激活多条下游通路，包括Ras/MAPK通路调节细胞增殖和基因表达，FAK/paxrin通路参与细胞骨架重排，PI3K/Akt通路调节细胞存活，pcy通路调控血管通透性等。

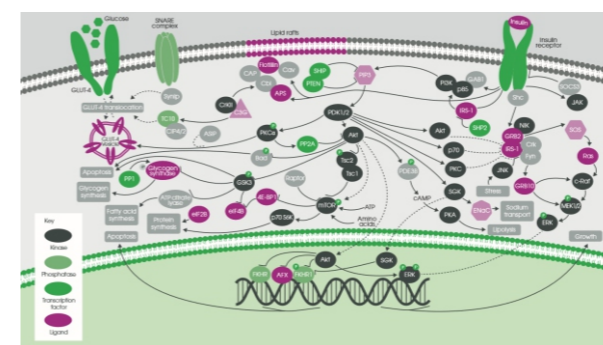


产品名称	货号	应用种属	应用范围
AKT1	BM4390	human,mouse,rat	WB,IHC,ICC/IF,IP
AKT1/2/3	BM4400	human,mouse,rat	WB,IHC,ICC/IF
	A00024-2	human,mouse,rat	WB,ICC/IF,FCM,ELISA
AKT2	BA1512	human,mouse,rat	WB,IHC
	PB9043	human,mouse,rat	WB,IHC
BAD	BM4241	human,mouse,rat	WB,IHC,ICC/IF
	A03520-2	human	WB,IHC,FCM,ELISA
CASP9(large)	BA3974	human	WB,IHC
Caspase 9	PB0285	human	WB
	A00080-4	mouse,rat	WB,FCM,ELISA
	BM4619	human,mouse	WB,IHC,ICC/IF,IP
CDC42	A00119	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4787	human,mouse	WB,IHC
	BA2442	human,bovine,mouse,rat	WB,IHC
	A00119-1	human,mouse,rat	WB,ICC/IF,FCM,ELISA
COX2	A00084-2	human,mouse	WB,FCM,ELISA
	M00084-5	human,mouse,rat	WB
eNOS	A01604-2	human,mouse,rat	WB,IHC,FCM,ELISA
FAK	BM4303	human,mouse,rat	WB,IHC,ICC/IF
	PB0662	human,mouse,rat	WB
HSP27	A00676	mouse,rat	WB,IHC,ELISA
	BM1586	human,mouse,rabbit,rat	WB,IHC,ICC/IF
	M00676-5	human	WB,IHC,ICC/IF,FCM
	PB9237	human	WB,IHC,ICC/IF,FCM
ERK-1/2	BM1595	human,mouse,rat,yeast	WB,IHC,ICC/IF
MAPKAPK2	BM5513	human,mouse,rat	WB

产品名称	货号	应用种属	应用范围
MAPKAPK2	A01193-2	human,mouse	WB,IHC,ICC/IF,ELISA
MEK1	BM3948	human,mouse,rat,cow,dog	WB,IHC,ICC/IF
MEK3	PB0815	human,mouse,rat	WB,IHC,ICC/IF,FCM
MAPK14	BM4142	human,mouse,rat	WB,ICC/IF,IP,FCM,ChIP
	A00176-2	human,mouse,rat	WB,ICC/IF,FCM
Paxillin	A01033-2	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4153	human,mouse,rat	WB,IHC,ICC/IF,IP
	BA4489	human,mouse,rat	WB,IHC,ICC/IF,IF,FCM
PI3 Kinase p110 Beta	A01091-1	human,mouse,rat	WB,IHC
PI3K p55 Gamma	BM4344	human,mouse,rat	WB,IHC,ICC/IF
PKC Beta	BM5371	human,mouse,rat	WB,IHC,ICC/IF,FCM
PKC Delta	A00822-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
RAC1	PB0425	human,mouse,rat	WB,ICC/IF
	BM5070	human,mouse,rat	WB
RAF1	BM4108	human,mouse,rat	WB,IHC,ICC/IF
	A00446-1	human,mouse,rat	WB,FCM
SH2D2A	M06232	human	WB,IHC,IF,FCM
	BM4873	human,mouse,rat	WB,IHC,ICC/IF,FCM
SRC	BA1404-1	human,mouse,rat	WB
	PB9059	human	WB,IHC,FCM
Symplekin	A05709-1	human,rat	WB,IHC,ICC/IF,FCM,ELISA
VEGFA	PB9071	human,mouse,rat	WB,IHC,FCM
	BM3995	human,mouse	IHC,ICC/IF,IP,FCM
VEGFB	A04494-2	mouse,rat	WB,IHC,ELISA
	A04494-1	human,mouse,rat	WB,ELISA
VEGFC	BA0548	human,mouse,rat	WB,IHC
VEGFR2	BA0472	human	WB,IHC,ICC/IF
	A00901-3	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	M00901-2	human,mouse,rat	WB

五. Insulin信号通路

胰岛素是胰岛β细胞合成的一种肽激素。胰岛素通过调节葡萄糖转运蛋白-4到细胞膜上的转运来控制葡萄糖、脂肪酸和蛋白质的代谢。胰岛素通过刺激葡萄糖转运体-4到细胞膜上的转运来控制细胞对葡萄糖的摄取。葡萄糖一旦被内化，就会以葡萄糖的形式促进其储存。在这两种情况下，这都是通过PI3K/Akt的作用实现的。PI3K/Akt被胰岛素受体底物IRS-1激活。胰岛素还通过抑制GSK 3的作用来促进蛋白质的合成，GSK 3通常是磷酸化的，使真核启动因子eIF2B和eIF4B失活。

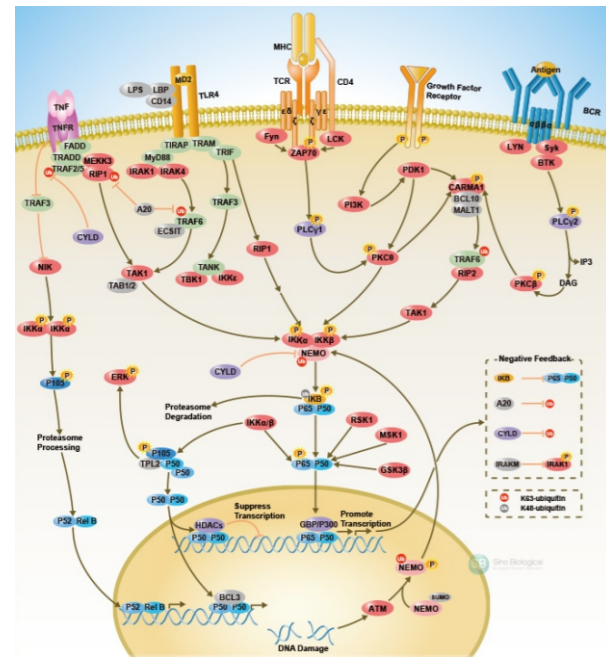


产品名称	货号	应用种属	应用范围
AKT1/2/3	BM4400	human,mouse,rat	WB,IHC,ICC/IF
AKT2	PB9043	human,mouse,rat	WB,IHC
BAD	BM4241	human,mouse,rat	WB,IHC,ICC/IF
	A03520-2	human	WB,IHC,FCM,ELISA
CAP1	PB0969	human,mouse,rat	WB
	M01531	human	WB,IHC,ICC/IF
Caveolin-1	PA1514	human,mouse,rat	WB,IHC,IF,FCM
	BM3927	human	WB,IHC,ICC/IF
c-Cbl	PB0022	human,mouse,rat	WB,IHC,ICC/IF,FCM
CRK	PB9101	human,mouse,rat	WB,IHC
	M02533-3	human,mouse,rat	WB,ICC/IF,IP,FCM
Cyclophilin A	BM5006	human,mouse,rat	WB,IHC
	A01308	human,mouse,rat	WB,IHC,ICC/IF,FCM
EIF2S2	BA3422	human	WB
EIF4A1	M03922-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A03922-2	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
EIF4B	A00846-1	human,mouse,rat	WB,IHC,FCM,ELISA
ERK1	BA1246	human,mouse,rat	WB,IHC,ICC/IF
Flotillin 2	M06107-2	human,mouse,rat	WB,IHC,ICC/IF
	PB0663	human,mouse,rat	WB,IHC,ICC/IF,FCM
FYN	BM4109	human,mouse,rat	WB
GAB1	BM5737	human,mouse,rat	WB
	A01989-1	human,mouse,rat	WB
GRB10	M01663	human,monkey,rat	WB,FCM
	A01663-2	human,mouse,rat,monkey	WB,IHC,FCM,ELISA
GRB2	BM5439	human,mouse,rat	WB
	BA2916-2	human,mouse,rat	WB
INPP5D	A03358	human,mouse,rat	WB,IHC
	BM4040	human	WB,IHC,IP,FCM
INSR	A00447-2	human,mouse,rat	WB,ELISA
	BM4640	human,rat	WB,ICC/IF
Insulin	A00067-3	human,mouse,rat	WB,IHC,ICC/IF,ELISA
	BM0080	human,mouse,rat,rabbit	IHC,IF
IRS1	M00268-3	human,mouse,rat	WB,IHC
	PB9223	human,mouse,rat	WB,IHC,ICC/IF,FCM
JAK1	BM5454	human,mouse,rat	WB
	A00330	human,mouse,rat	WB
JNK1/2/3	BM4329	human,mouse,rat,cow,dog,monkey,zebrafish	WB,ICC/IF,IP
JNK1	A02608-1	human,mouse	WB,ICC/IF,IP,ELISA
MEK1/2	BM4055	human,mouse,rat	WB,IHC,ICC/IF,IP
PI3 Kinase p110 Gamma	A01517-2	human,mouse,rat	WB,IHC,FCM,ELISA
PI3K p55 Gamma	BM4344	human,mouse,rat	WB,IHC,ICC/IF
PIK3CD	BM5407	human,mouse,rat	WB,ICC/IF
PKA 2 Beta	BM5102	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
PKC Alpha	PB0354	human,mouse,rat	WB,IHC
PKC Alpha(Phospho-T638)	BM4896	human,mouse,rat	WB,IHC,ICC/IF,IP
PTEN	A00006-1	human,mouse,rat	WB
PTEN(Phospho-S380)	BM4685	human,mouse,rat	WB,ICC/IF
RAF1	A00446-1	human,mouse,rat	WB,FCM
RAF1(Phospho-S259)	BM4780	human,mouse,rat	WB,IHC

产品名称	货号	应用种属	应用范围
SGK1	BM4452	human,mouse,rat	WB,IHC,IP,FCM
	PB0434	human,mouse,rat	WB
SHC	MA00796	human,mouse,rat	WB,IHC,IF
	BA2866	human,mouse,rat	WB,IHC,ICC/IF
SHP2	PB9675	human,mouse,rat	WB,IHC
	M00150-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
SLC2A4	PB9109	human,mouse,rat	WB,IHC
SOCS3	A00274-2	human,mouse,rat	WB,FCM,ELISA
SOS1	BM5105	human,mouse,rat	WB,IHC,ICC/IF

六. NF-κB 信号通路

NF-κB (核因子激活的B细胞的κ-轻链增强) 是一种蛋白质复合物, 其控制转录的DNA, 细胞因子产生和细胞存活。NF-κB几乎存在于所有动物细胞类型中, 并参与细胞对刺激的反应, 如应激, 细胞因子, 自由基, 重金属, 紫外线照射, 氧化LDL和细菌或病毒抗原。NF-κB在调节对感染的免疫应答中起关键作用。NF-κB的不正确调节与癌症, 炎症和自身免疫疾病, 感染性休克, 病毒感染和免疫发育不当有关。NF-κB也与突触可塑性和记忆过程有关。



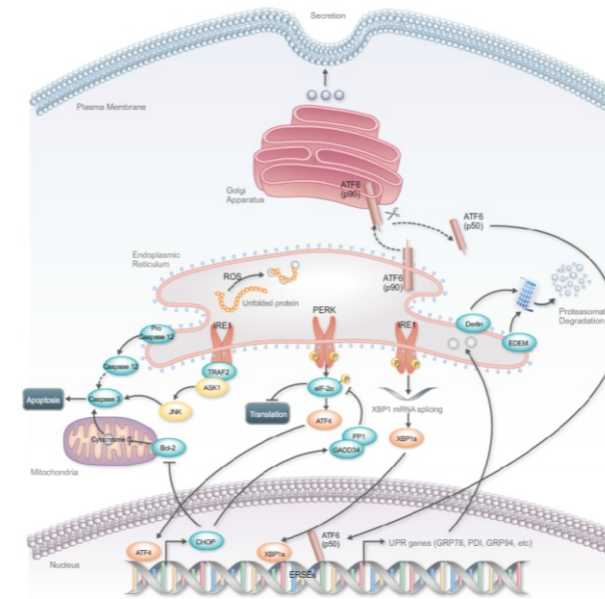
产品名称	货号	应用种属	应用范围
AKT1/2/3	BM4400	human,mouse,rat	WB,IHC,ICC/IF
	A00024-2	human,mouse,rat	WB,ICC/IF,FCM,ELISA
BAFF	PB0553	human,mouse,rat	WB
BAFFR	A02865-1	human,mouse,rat	WB,ELISA
BCL10	BA2809-2	human,mouse,rat	WB
BCR	PB1044	human,mouse,rat	WB,ICC/IF,FCM
	A00022-2	human,mouse,rat	WB,FCM,ELISA
BLNK	A03630-2	human,mouse,rat	WB,ICC/IF,ELISA

产品名称	货号	应用种属	应用范围
BTK	PB0104	human,mouse,rat	WB,IHC
	BM4570	human	WB
BTK(Phospho-Y223)	BM4397	human	WB
BTK(Phospho-Y551)	BM4567	human	WB,ICC/IF
CARD11	M00740	human,mouse	WB,ICC/IF
CD154	A01114-4	human,mouse,rat	WB,FCM,ELISA
	BM5075	human,mouse	WB
CD19	PB9800	human	WB,IHC
	A00154-4	rat	IHC,ELISA
	A00154-2	human,mouse,rat	WB,ELISA
IKB Alpha	PB9291	human,mouse,rat	WB,IHC
	BM3932	human,mouse,rat	WB,IHC,ICC/IF
IKB Alpha (Phospho-S36)	P01139-1	human,mouse	WB,FCM
	MA01139	human,mouse,rat	WB,IF
IKKBK	PB9221	human	WB,IHC,ICC/IF,FCM
IKBK	BM4875	human,mouse,rat	WB,IHC,ICC/IF
	BM5111	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
IKBK	A00874	human,mouse,rat	WB,FCM,ICC/IF
	A00101	human,mouse,rat	WB
IL-1 beta	BM4157	human	WB
	A00101-4	mouse	WB,ELISA
IL-1RA	A00651-5	mouse,rat	WB,IHC,FCM,ELISA
	A00651-2	human	WB,IHC,FCM,ELISA
IRAK1	BM4628	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	BM5189	human	WB,ICC/IF,IP
LCK	PB0850	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM5379	human	WB,IHC,ICC/IF,IP,FCM
MALT1	BA3086-2	human	WB
MYD88	BM4520	human	WB,IHC,ICC/IF,FCM
NFκB p105/p50	PB9148	human,mouse,rat	WB,IHC,IF,FCM,ELISA
	BA1297-2	human,mouse,rat	WB
NFκB p100/p52	BM3946	human,mouse,rat	WB,IHC
	BM5404	human,mouse,rat	WB,ICC/IF,IP
NF-κB p65/RELA	PB9150	human,mouse,rat	WB,IHC
	A00284-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
PKC Beta	BM3940	human,mouse	WB
	A01517-2	human,mouse,rat	WB,IHC,FCM,ELISA
PKC theta	A01940	human,mouse,rat	WB,IHC
	BM5371	human,mouse,rat	WB,IHC,ICC/IF,FCM
PLCG2	A01293-3	human	WB,IHC,ELISA
	BM5599	human,mouse,rat	WB
RELB	A03572-1	human	WB,IHC,ICC/IF,FCM
	BM5160	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
RIPK1	PB0846	human,mouse,rat	WB,FCM
	BM4850	human	WB
SYK	BA3852-2	human,mouse,rat	WB
	A00490-3	human,mouse,rat	FCM,WB,ELISA
TAK1	BA2942-1	human,mouse,rat	IHC
	PB1066	human,mouse,rat	WB,ICC/IF,FCM

产品名称	货号	应用种属	应用范围
TAK1	BM5328	human,mouse,rat	WB,IHC,ICC/IF,FCM
TNF Alpha	BA0131	human,mouse,rat	WB,IHC,FCM
TNFR1	A00294-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
CD40	PB10052	human,mouse	WB,IHC,FCM,ELISA
TRADD	BA1442-1	human,mouse,rat	IHC
TRAF2	BM4677	human,mouse,rat	WB,ICC/IF,IP,FCM
	BA1444-2	human,mouse,rat	WB,IHC,ICC/IF
TRAF6	A00185	mouse,rat	WB,IHC,FCM,ELISA
	BM4061	human,mouse,rat	WB,IHC,ICC/IF

七. 内质网应激信号通路

内质网应激与多种神经退行性疾病的发生有关, 包括阿尔茨海默病、帕金森病和缺血所致的神经元损伤。在ER胁迫下, ER应激反应基因 (GRP 78/Bip、CHOP和ATF 4) 的表达被证实是上调的。ER应激可由多种因素引起, 包括病理生理条件(高同型半胱氨酸血症、神经营养因子剥夺、缺氧)和药物等, 这些因素可触发未折叠蛋白反应, 导致细胞功能障碍。

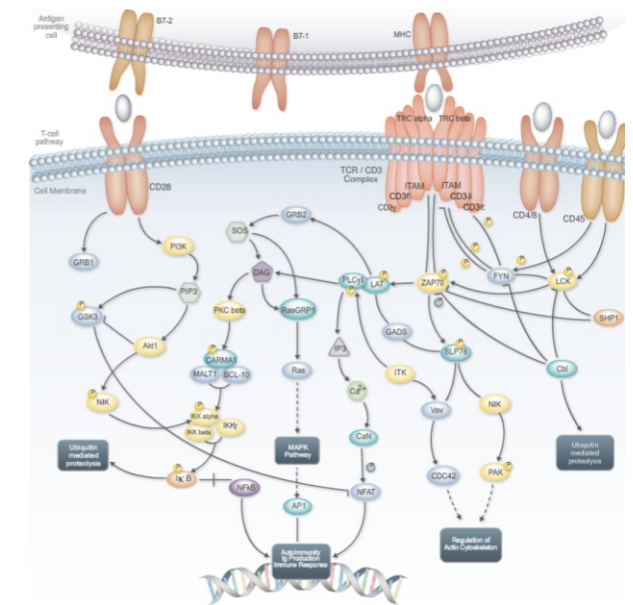


产品名称	货号	应用种属	应用范围
ASK1	A00929-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM4220	human,mouse	WB,IHC,ICC/IF,FCM
ATF4	A00371-4	human,mouse,rat	WB,FCM,ICC/IF,ELISA
	BM5179	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
ATF6	A00655-3	human,mouse,rat	WB,ICC/IF,FCM,ELISA
BCL2	BA0412	human,mouse,rabbit,rat	IHC,WB
Caspase 3	BM4620	human,mouse,rat	WB,IHC,ICC/IF
Cytochrome c	PB9334	human,mouse,rat	WB,IHC,ICC/IF,IF
EIF2A	BA3268	human	WB,IHC
EIF2A(Phospho-S51)	BM3942	human,mouse,rat	WB,IHC,ICC/IF

产品名称	货号	应用种属	应用范围
GADD153	A00311-4	mouse,rat	WB,FCM,ELISA
	A00311-2	human	WB,IHC,FCM,ELISA
	BM4962	human,mouse,rat	WB,IHC,FCM
GADD34	A02394-5	human,mouse,rat	WB,IHC,ICC/IF,ELISA
IRE1/ERN1	A00683-1	human,mouse,rat	WB,ICC/IF,FCM,ELISA
JNK1/2/3	BM4329	human,mouse,rat,cow,dog,monkey,zebrafish	WB,ICC/IF,IP
JNK1	A02608-1	human,mouse	WB,ICC/IF,IP,ELISA
JNK2	BM4462	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	PB0522	human	WB
PERK	A01992-2	human,mouse,rat	WB,FCM,ELISA
TRAF2	BM4677	human,mouse,rat	WB,ICC/IF,IP,FCM
	BA1444-2	human,mouse,rat	WB,IHC,ICC/IF
XBP1	PB9463	human,mouse,rat	WB,IHC,FCM,ICC/IF

八. T细胞活化通路

T细胞活化是指在通过抗原呈递细胞(APC)刺激后T细胞对免疫应答的激发。该相互作用途径解释了触发T细胞活化以及它们的下游途径的主要刺激信号。T细胞活化需要两个同时的信号。第一种是T细胞受体复合物(TCR)与携带抗原的主要组织相容性复合体(MHC)分子的结合。第二种是通过共刺激受体CD28与APC表面的蛋白质结合提供的, 如B7-2或B7-1。TCR的激活导致CD45的激酶Fyn和LCK的去磷酸化, 以前由CD4和CD8共受体募集和激活。Fyn和Lck磷酸化TCR上的酪氨酸基序(ITAMs), 然后结合ZAP-70激酶。活化的ZAP-70最终触发了许多免疫应答, 例如抗体产生、吞噬细胞的活化和直接细胞杀灭。



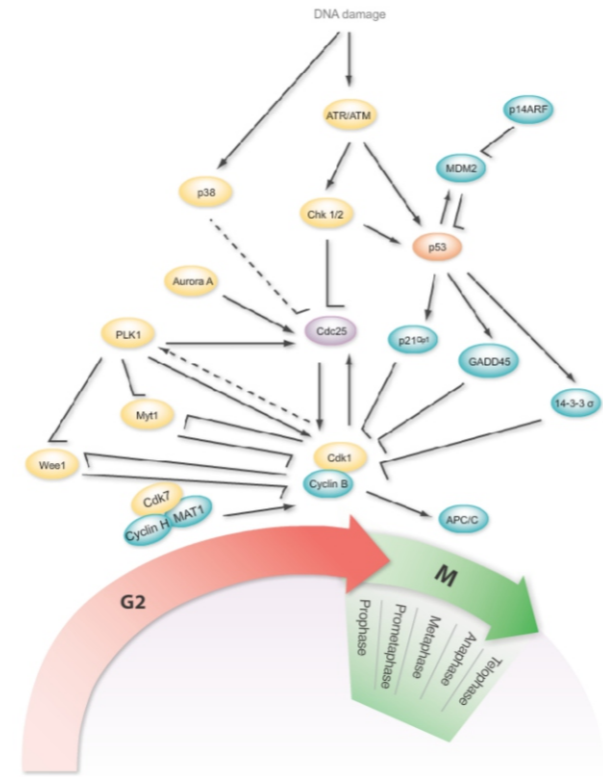
产品名称	货号	应用种属	应用范围
AKT1/2/3	BM4400	human,mouse,rat	WB,IHC,ICC/IF
	A00024-2	human,mouse,rat	WB,ICC/IF,FCM,ELISA
CD80	A00196-3	human,mouse	WB,FCM,ELISA

产品名称	货号	应用种属	应用范围
CD80	MA00196	human	WB,IHC,IF
CD86	PB9251	human,mouse	WB,IHC
	BM4121	human,rat	WB,IHC,FCM,ICC/IF,IP
BCL10	BA2809-2	human,mouse,rat	WB
	BM1565	human,mouse,rat	WB,IHC
CARD11	M00740	human,mouse	WB,ICC/IF
c-Cbl	PB0022	human,mouse,rat	WB,IHC,ICC/IF,FCM
CD28	A00065-3	human	WB,FCM,ELISA
	M00065-2	human	WB
	M00065-1	mouse	IHC
CD3G	A04853-2	human	WB,ICC/IF,FCM,ELISA
	BM5652	human,mouse	WB
CD3E	PB9093	human,chicken,mouse,rat	WB,IHC,ICC/IF,IF
	MA02675	human,monkey,dog	WB,IHC,IF
CD4	A00344-2	mouse,rat	WB,IHC,FCM,ELISA
	A00344-2-Dyl488	mouse,rat	FCM
CD45	A00555-4	mouse,rat	WB,IHC,ICC/IF,ELISA
	M00555-5	human	WB,IHC,IF,FCM
CD8A	A02236-3	mouse,rat	WB,IHC,FCM,ELISA
	BM4379	human	WB,IHC,ICC/IF
CDC42	A00119	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4787	human,mouse	WB,IHC
GRB2	BA2916-2	human,mouse,rat	WB
	BM5439	human,mouse,rat	WB
GSK3 Alpha/Beta (Phospho-Y216+Y279)	BM4836	human,mouse,rat	WB,IHC,ICC/IF,IP
	BA2974-1	human,mouse,rat	IHC
GSK3A	A03152-2	human,mouse,rat	WB
	BM3904	human,mouse	WB,IHC
GSK3B	BM3904	human,mouse	WB,IHC
IKB Alpha	BM3932	human,mouse,rat	WB,IHC,ICC/IF
IKB Beta	PB9292	human,mouse,rat	WB,IHC
IKKB	PB9221	human	WB,IHC,ICC/IF,FCM
	BM4875	human,mouse,rat	WB,IHC,ICC/IF
IKK Alpha	PB9110	human	WB,IHC
	BM4572	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
ITK	A01385-3	human	WB,IHC,FCM,ELISA
	BM5205	human	WB,IHC,FCM
LAT	BA2912-2	human	IHC,WB,ICC/IF
LAT(Phospho-Y191)	BM3960	human,mouse,rat	WB,IHC,ICC/IF
LCK	PB0850	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM5379	human	WB,IHC,ICC/IF,IP,FCM
MALT1	BA3086-2	human	WB
	M01599-3	human,mouse,rat	WB
NFkB p100/p52	BM5404	human,mouse,rat	WB,ICC/IF,IP
	BA1298	human,mouse,rat,rabbit	WB,IHC

产品名称	货号	应用种属	应用范围
PAK1/2/3(Phospho-S144+S141+S139)	BM4224	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	A03124-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
PAK3	BM5432	human,mouse,rat	WB
	A01940	human,mouse,rat	WB,IHC
PKC Beta	BM5371	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A01940	human,mouse,rat	WB,IHC
PLCG1	BM4477	human,mouse,rat	WB,ICC/IF,IP
PLCG2	A03572-1	human	WB,IHC,ICC/IF,FCM
PTPN6	A00938-3	human,mouse	WB,ICC/IF,FCM,ELISA
	M00938-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
VAV2	BM4551	human,mouse,rat	WB,IHC,ICC/IF,IP
ZAP70	M00754-5	human,mouse,rat	WB,FCM
	PB1022	human,mouse,rat	WB,IHC

九. 细胞周期

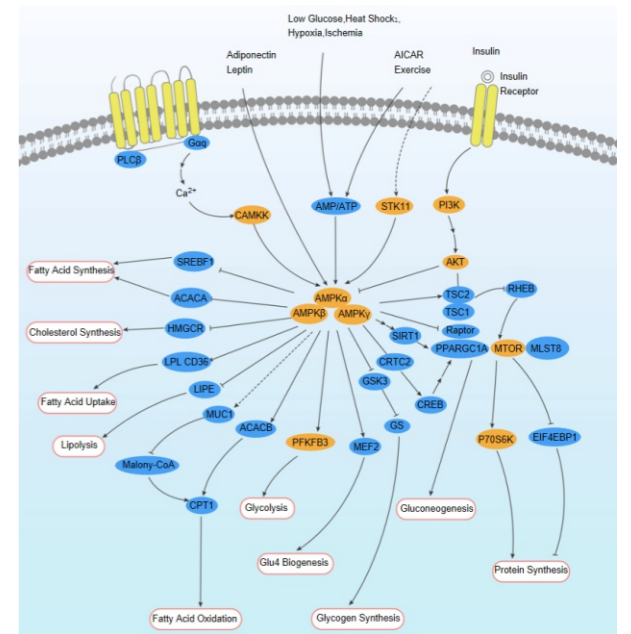
G2/M 检查点可防止带有受损DNA 的细胞进入有丝分裂(M) 阶段。与cyclin B 结合的活化CDK1 (cdc2) 可推动细胞进入有丝分裂阶段。Wee1 和Myt1 激酶以及cdc25 磷酸酶调控CDK1 活性; Wee1 和Myt1 可抑制CDK1, 并防止其进入有丝分裂阶段, 而cdc25 能够去除抑制性磷酸盐。DNA 损伤会激活多个使激酶Chk1/2 以及癌抑制蛋白p53 磷酸化的激酶。Chk1/2 激酶刺激Wee1 活性, 并抑制cdc25C, 从而防止进入有丝分裂阶段。p53 的磷酸化能够促进p53 和MDM2 之间的分裂, 并使转录因子可以与DNA 相结合。



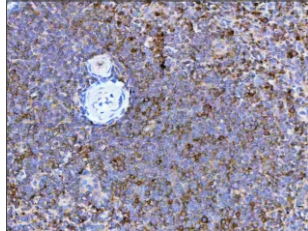
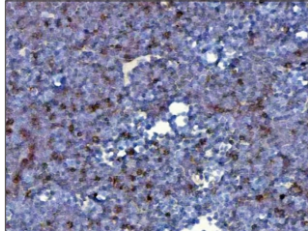
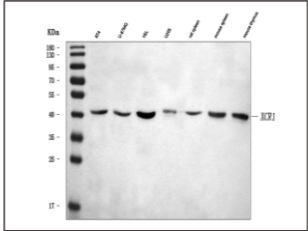
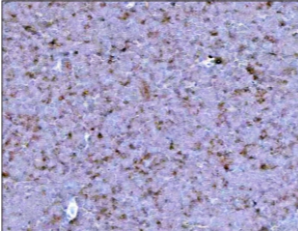
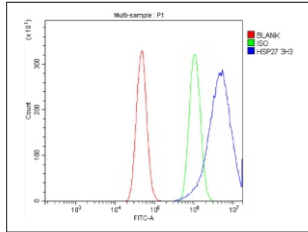
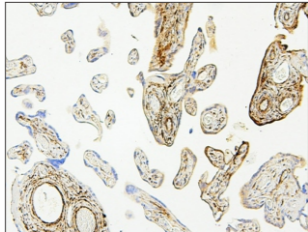
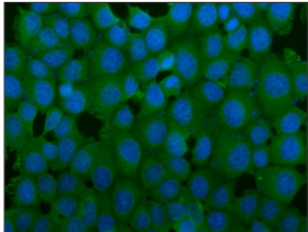
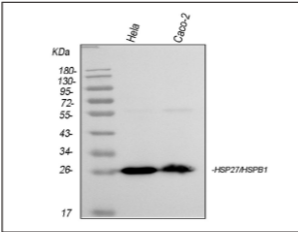
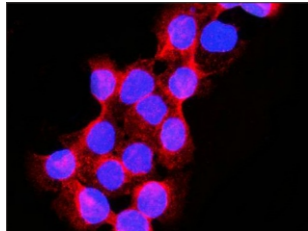
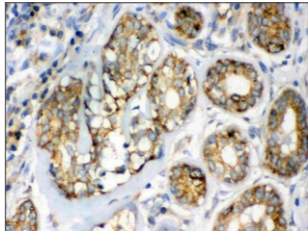
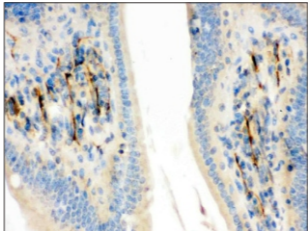
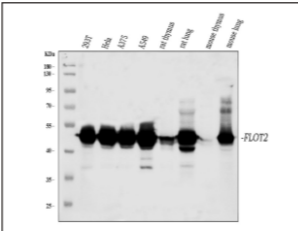
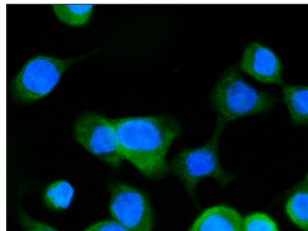
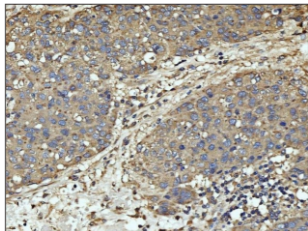
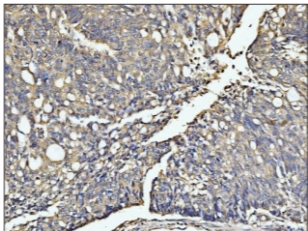
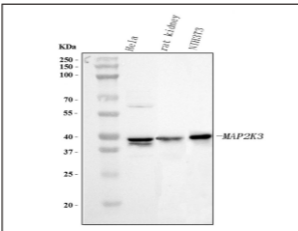
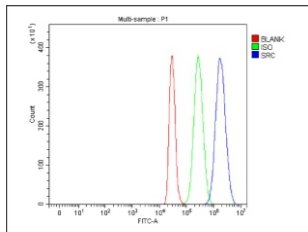
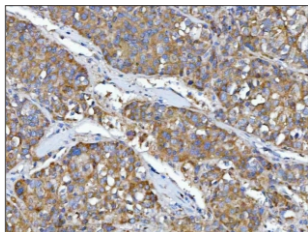
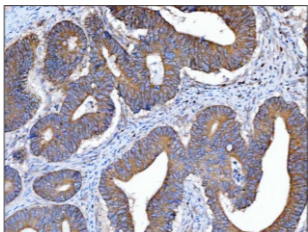
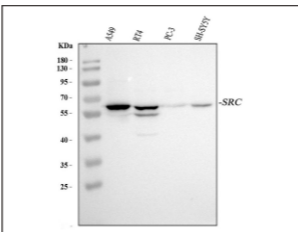
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APC	BA0645	human,mouse,rat	WB,IHC
	M00008-2	human,mouse,rat	WB,IHC
ARF1	BM4630	human,mouse,rat	WB,IHC,FCM
ARF6	A00927-2	human,mouse,rat	WB,FCM,ICC/IF,ELISA
ATR	A00262-3	human	WB,FCM,ELISA
	A00262-2	human	ICC/IF,ELISA
Aurora A	A00246-5	mouse,rat	WB,ELISA
Aurora A	BM4361	human,mouse	WB,ICC/IF,FCM
CDC25B	PB9488	human,mouse,rat	WB,IHC
CDC25C	BM4768	human	WB,IHC,ICC/IF
CDK1	M00209-6	human,mouse,rat	WB,IHC,FCM
	PB9533	human,mouse,rat	WB,IHC,ICC/IF,FCM
CDK7	BM1617	human	WB,IHC,ICC/IF
	BA1521-2	human,mouse,rat	WB
Cyclin H	BM4669	human,mouse	WB,IHC,ICC/IF,IP,FCM
GADD45A	PB0989	human,mouse,rat	WB
MDM2	BA3612-2	human,mouse,rat	WB
	P00054-2	human	WB,IHC
MDM2 (Phospho-S166)	M00054-2	human	WB
	PB0649	human,mouse,rat	WB,IHC,ICC/IF,FCM
MNAT1	PB0649	human,mouse,rat	WB,IHC,ICC/IF,FCM
P21	M00145-4	human	WB,IHC
	A00145-1	human	WB,IHC,ICC/IF,ELISA
P38	A00176-2	human,mouse,rat	WB,ICC/IF,FCM
	BM4142	human,mouse,rat	WB,ICC/IF,IP,FCM,ChIP
P53	PB9008	human	WB,IHC,ICC/IF,FCM
P53(Phospho-S392)	BM4095	human,mouse,rat	WB,IHC,ICC/IF,IP
PLK1	PB9500	human	WB
	MA00182	human,mouse,rat	WB,IHC,FCM
WEE1	A01319-1	human,mouse,rat	WB,IHC,ICC/IF,FCM

十. AMPK信号通路

腺苷酸激活蛋白激酶(AMPK)是生物能量代谢调节的关键分子,以一种异源三聚体复合物的形式存在。包括一个α-催化亚基、一个β-调节亚基和一个γ-调节亚基组成。α-亚基N-末端包含一个保守的Ser/Thr激酶区包含一个保守的苏氨酸(Thr-172)位点,该位点的磷酸化是其激酶活性所必需的。主要的上游磷酸化酶有AMP依赖的STK11及Ca²⁺依赖的CAMKK, AMPK表达于各种代谢相关的器官中,能被机体各种刺激激活,包括细胞压力、运动和很多激素及能影响细胞代谢的物质。遗传学和药理学研究表明, AMPK是机体保持葡萄糖平衡所必需的,是研究糖尿病及其他代谢相关疾病的核心。



产品名称	货号	应用种属	应用范围
EIF4EBP1	A00968-1	human,mouse,rat	WB,IHC,FCM
ACACA	BM4414	human,mouse,rat	WB,IHC
	A01802-2	human,mouse,rat	WB
Adiponectin	PB9011	mouse,rat	IHC,WB
AKT1/2/3	BM4400	human,mouse,rat	WB,IHC,ICC/IF
	BA1512	human,mouse,rat	WB,IHC
AMPK Alpha 2 (Phospho-S491)	BM4739	human,mouse,rat	WB
AMPK Beta 1	PB0722	human,mouse,rat	WB,ICC/IF,FCM
	BM4738	human,mouse,rat	WB,FCM
AMPK Gamma 1	BM4614	human,mouse,rat	WB
ATM	BM4091	human	WB,ICC/IF
ATM(Phospho-S1981)	BM4008	human,mouse	WB,IHC,ICC/IF,IP
CAMKK1	BA3630	human,mouse,rat	WB,IHC
EIF4E	A00135-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	MA00135	human,mouse,rat	WB,IHC
EIF4E(Phospho-S209)	BM4282	human,mouse,rat	WB,IHC,ICC/IF,IP
CD36	A01189-1	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4633	human,mouse,rat	WB,IP
CD95	BM4868	human	WB,IHC,ICC/IF,FCM
	A00055	mouse,rat	WB,FCM,ELISA
CPT2	A02112-1	human,mouse,rat	WB,FCM,ELISA
EEF2	A00830-1	human,mouse,rat,monkey,zebrafish	WB,IHC,ELISA
	BM5382	human,mouse,rat	WB,IHC,ICC/IF
EEF2K	A02277-3	human,rat	WB,ICC/IF,FCM,ELISA
eNOS	A01604-2	human,mouse,rat	WB,IHC,FCM,ELISA
Hamartin	M00365	human,mouse,rat	WB,IHC
	BA2879	human,mouse,rat	WB,IHC

			
XCR1 (A04185-1) human spleen (石蜡片) SABC法 DAB显色	XCR1 (A04185-1) mouse thymus (石蜡片) SABC法 DAB显色	XCR1 (A04185-1) Rabbit polyclonal antibody Western blot	XCR1 (A04185-1) rat thymus (石蜡片) SABC法 DAB显色
			
HSP27 (M00676-5) A431 Cell by Flow Cytometry	HSP27 (M00676-5) human placenta (石蜡片) SABC法 DAB显色	HSP27 (M00676-5) MCF-7 Cell Dylight488-羊抗小鼠 DAPI染核	HSP27 (M00676-5) Mouse monoclonal antibody Western blot
			
FLOT2 (PB0663) A431 Cell Dylight550-羊抗兔 DAPI染核	FLOT2 (PB0663) human mammary cancer (石蜡片) SV法 DAB显色	FLOT2 (PB0663) mouse intestine (石蜡片) SV法 DAB显色	FLOT2 (PB0663) Rabbit polyclonal antibody Western blot
			
MAP2K3 (PB0815) Caco-2 Cell Dylight488-羊抗兔 DAPI染核	MAP2K3 (PB0815) human liver cancer (石蜡片) SABC法 DAB显色	MAP2K3 (PB0815) human ovarian cancer (石蜡片) SABC法 DAB显色	MAP2K3 (PB0815) Rabbit polyclonal antibody Western blot
			
SRC (PB9059) HepG2 Cell by Flow Cytometry	SRC (PB9059) human liver cancer (石蜡片) SABC法 DAB显色	SRC (PB9059) human rectal cancer (石蜡片) SABC法 DAB显色	SRC (PB9059) Rabbit polyclonal antibody Western blot

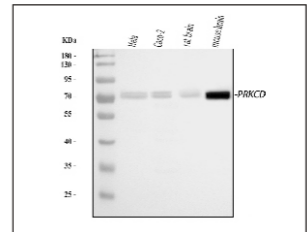
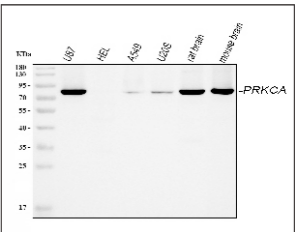
第三章 表观遗传

表观遗传学是研究行为、环境和表型如何改变基因活性和表达的科
学。与基因变异不同，表观遗传修饰通常是可逆的，而且不会改变
DNA 序列。常见的表观遗传学研究主题有 DNA 甲基化、RNA 修
饰、组蛋白修饰、组蛋白调控以及多梳蛋白和染色质重塑。



产品名称	货号	应用种属	应用范围
AURKA	A00246-5	mouse, rat	WB, ELISA
	A00246-4	human	WB, IHC, FCM, ELISA
	A00246-3	human	WB, IHC, ICC/IF, FCM, ELISA
	BM4361	human, mouse	WB, ICC/IF, FCM
DNMT1	A00172-1	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
DNMT3A	A00136-2	human, mouse, rat	WB, IHC, ICC/IF, IP, ELISA
DNMT3B	A00319-5	human, mouse, rat, monkey	WB, FCM, ELISA
	BM3912	human, mouse, rat	WB, ICC/IF
GCN5L2	PB0753	human, mouse, rat	WB
HAT1	M03596	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
HDAC1	A00256-4	human	WB, IHC, FCM
	MA00256	human, mouse, rat	WB, IF, FCM
HDAC2	A00325-3	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
HDAC4	A00971-1	human, mouse, rat	WB, IHC, ICC/IF, FCM
HDAC9	A02177-4	human, mouse, rat	WB, ICC/IF, FCM, ELISA
Histone H1.0	A08821-1	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
	M08821-2	human, mouse	WB, IHC, FCM
Histone H2A.X	A00241-4	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
Histone H2A.X	A00241-1	human, mouse, rat	WB, IHC, FCM, ELISA
	BM4148	human, mouse, rat	WB, IHC, ICC/IF, IP
H2AFX(Phospho-S139)	BM4841	human, mouse, rat	WB, IHC
Histone H2B	BM4684	human	WB, IHC, ICC/IF, FCM
H2BC21	BM4324	human, mouse	WB
	A07286-1	human, mouse, rat	WB, IHC, ICC/IF
	M07286-1	human, mouse, rat	WB, IHC
	M07286-3	human, mouse, rat	WB, IHC, ICC/IF
H2BC3	BM4597	human, mouse, rat	WB, IHC, ICC/IF
HTB1(Phospho-T129)	BM4318	yeast	WB
HTB1	BM4317	yeast	WB

产品名称	货号	应用种属	应用范围
Histone H3.3	BM4389	human, mouse, rat	WB, IHC, ICC/IF
H3-3A(Phospho-S31)	P06819-5	human, mouse, rat	WB, IHC, ICC/IF, FCM
Histone H4	BM4713	human, mouse, rat	WB, IHC, ICC/IF
	A14495-3	human, mouse, rat	WB, IHC, ICC/IF, IP, ELISA
	BM4189	human, mouse, rat	WB, IHC, ICC/IF, IP
	BM4315	human, mouse	WB, ICC/IF
	BM4343	human, mouse, rat	WB, IHC
	BM4161	human, mouse, rat	WB, IHC, ICC/IF, FCM
KAT7	BM5364	human, mouse, rat	WB, IHC, ICC/IF, IP
PRKCA	PB0354	human, mouse, rat	WB, IHC
	BM4238	human, mouse, rat	WB, IHC, ICC/IF, IP, FCM
PRKCA(Phospho-T638)	BM4896	human, mouse, rat	WB, IHC, ICC/IF, IP
PRKCA(Phospho-T638)	M00743-1	human, mouse, rat	WB
PRKCB	BM5371	human, mouse, rat	WB, IHC, ICC/IF, FCM
PRKCD	A00822-1	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
PRKCE	BA1360	human, mouse, rabbit, rat	WB, IHC
	A01151-1	human, mouse, rat	WB, ICC/IF, ELISA
PRKCH	PB9556	human	WB, IHC, FCM
	BA1361	human, mouse, rabbit, rat	WB, IHC
	BM5367	human, mouse, rat	WB, IP
PRKCG	A01890	human, mouse, rat	WB, IHC, IF, ICC/IF
	BM0401	human, rabbit, mouse, rat	WB, IHC
PRKCI	PB9321	human, mouse, rat	WB, IHC
PRKCK	A01293-3	human	WB, IHC, ELISA
PRKCK(Phospho-T560)	BM4623	human, mouse, rat	WB, IHC
SIRT1	A00018-1	human, mouse, rat	WB, IHC, ICC/IF, FCM, ELISA
	PB0173	human, mouse, rat	WB, ICC/IF
SIRT1(Phospho-S47)	BM4507	human	WB, IHC, ICC/IF
SIRT1(Phospho-T530)	BM4689	human	WB
SIRT2	BM4384	human, rat	WB, ICC/IF, IP, FCM
	PB9160	human, mouse, rat	WB, IHC
SIRT6	A00611-2	human, mouse, rat	WB, IHC, ELISA
	M00611-3	human, mouse, rat	WB, IF
Survivin	BM3975	human	WB, IHC, ICC/IF, IP, FCM
	PB0377	mouse	WB, IHC, FCM
	A00379	human, mouse, rat	WB, IHC, ELISA

	
PRKCA (BM4858-1) Rabbit Monoclonal antibody Western blot	PRKCA (PB0354) Rabbit polyclonal antibody Western blot

AURKA (A00246-3) Caco-2 Cell Dylight594-羊抗兔 DAPI染核

AURKA (A00246-3) human hashimoto thyroiditis (石蜡片) SABC法 DAB显色

AURKA (A00246-3) human liver cancer (石蜡片) SABC法 DAB显色

AURKA (A00246-3) Rabbit polyclonal antibody Western blot

AURKA (A00246-4) human breast cancer (石蜡片) SABC法 DAB显色

AURKA (A00246-4) human cervical cancer (石蜡片) SABC法 DAB显色

AURKA (A00246-4) human ovarian cancer (石蜡片) SABC法 DAB显色

AURKA (A00246-4) Rabbit polyclonal antibody Western blot

HDAC1 (A00256-4) human esophageal squamous carcinoma (石蜡片) SABC法 DAB显色

HDAC1 (A00256-4) human lung cancer (石蜡片) SABC法 DAB显色

HDAC1 (A00256-4) human tonsil (石蜡片) SABC法 DAB显色

HDAC1 (A00256-4) Rabbit polyclonal antibody Western blot

HDAC2 (A00325-3) Caco-2 Cell Dylight594-羊抗兔 DAPI染核

HDAC2 (A00325-3) human cervical cancer (石蜡片) SABC法 DAB显色

HDAC2 (A00325-3) human lung cancer (石蜡片) SABC法 DAB显色

HDAC2 (A00325-3) Rabbit polyclonal antibody Western blot

PRKCA (PB0354) Rabbit polyclonal antibody Western blot

SIRT6 (A00611-3) Hela Cell by Flow Cytometry

SIRT6 (A00611-3) Rabbit polyclonal antibody Western blot

SIRT6 (A00611-3) U20S Cell Dylight Cy3-羊抗兔 DAPI染核

DNMT3B (A00319-5) Caco-2 Cell by Flow Cytometry

DNMT3B (A00319-5) Rabbit polyclonal antibody Western blot

PRKCE (A01151-1) A549 Cell Dylight Cy3-羊抗兔 Tubulin alpha (green) DAPI染核

PRKCE (A01151-1) Rabbit polyclonal antibody Western blot

PRKCG (A01890) Rabbit polyclonal antibody Western blot

PRKCG (A01890) Rabbit polyclonal antibody Western blot

PRKCG (A01890) Rat cerebellum (石蜡片) Dylight488-羊抗兔 DAPI染核

PRKCG (A01890) Rat cerebellum (石蜡片) Dylight555-羊抗兔 Anti-GFAP (green) DAPI染核

Histone H1.0 (A08821-1) human mammary cancer (石蜡片) SV法 DAB显色

Histone H1.0 (A08821-1) mouse small intestine (石蜡片) SV法 DAB显色

Histone H1.0 (A08821-1) Rabbit polyclonal antibody Western blot

Histone H1.0 (A08821-1) A431 cell line

H2AFX (Phospho-S139)(BM4841) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色

H2AFX (Phospho-S139)(BM4841) human liver cancer (石蜡片) SV法 DAB显色

H2AFX (Phospho-S139)(BM4841) human placenta (石蜡片) SV法 DAB显色

H2AFX (Phospho-S139)(BM4841) Rabbit Monoclonal antibody Western blot

Histone H1.0 (M08821-2) human highly differentiated hepatocellular carcinoma (石蜡片) SV法 DAB显色

Histone H1.0 (M08821-2) human rectal adenocarcinoma (石蜡片) SV法 DAB显色

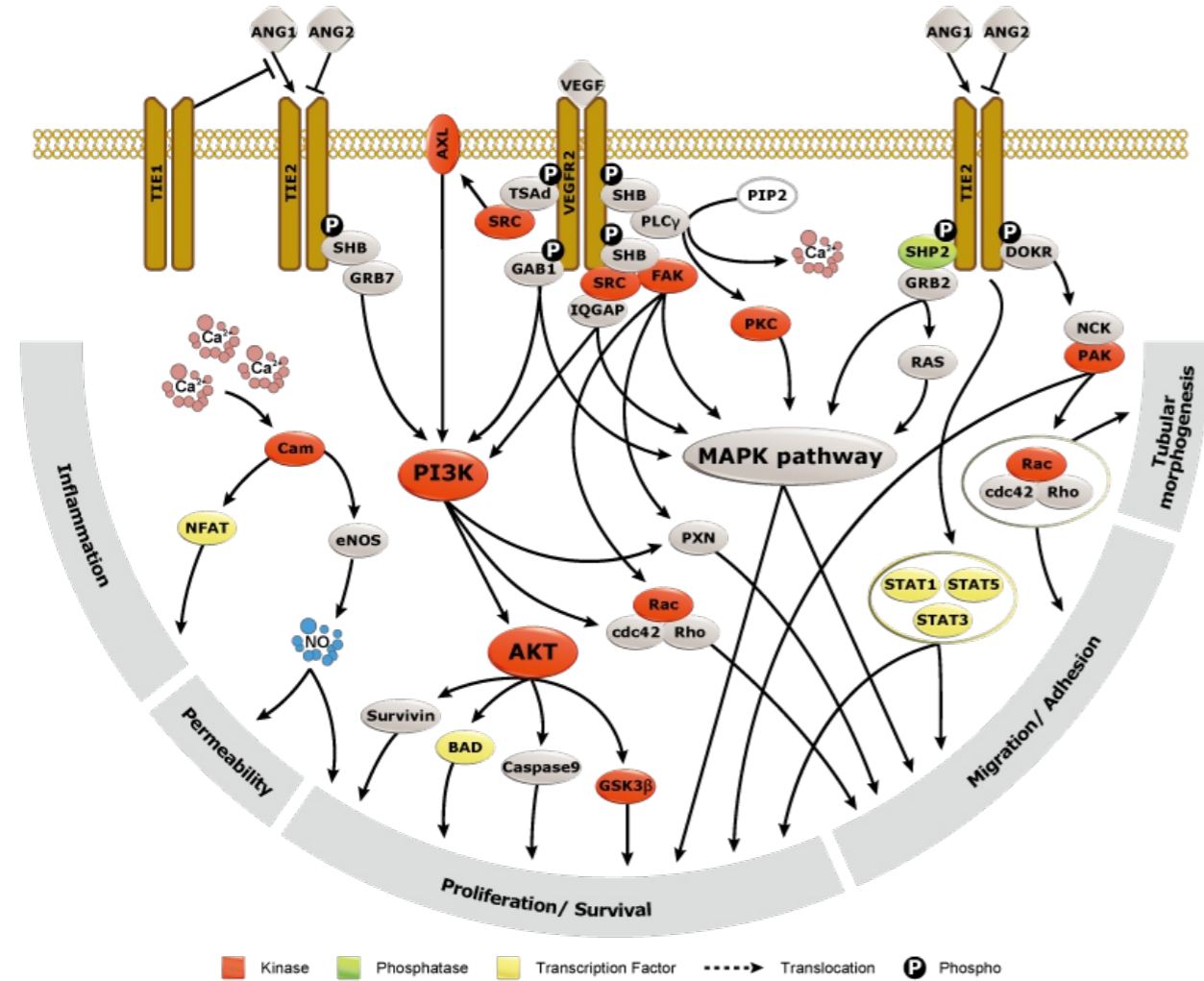
Histone H1.0 (M08821-2) mouse colon (石蜡片) SV法 DAB显色

Histone H1.0 (M08821-2) Mouse monoclonal antibody Western blot

第四章 心血管

一. 血管生成

血管生成是指从已有的毛细血管或毛细血管后静脉发展而形成新的血管，主要包括：激活期血管基底膜降解；血管内皮细胞的激活、增殖、迁移；重建形成新的血管和血管网，是一个涉及多种细胞的多种分子的复杂过程。血管形成是促血管形成因子和抑制因子协调作用的复杂过程，正常情况下二者处于平衡状态，一旦此平衡打破就会激活血管系统，使血管生成过度或抑制血管系统使血管退化。



产品名称	货号	应用种属	应用范围
ACE	PB9124	human,mouse,rat	WB,IHC,ICC/IF
	BM5384	human,mouse	WB,IHC,FCM
AGT	A02103-3	human	WB,IHC,FCM,ELISA
	A02103-4	human	WB,IHC,FCM,ELISA
	BM4639	human	WB,ICC/IF,IP
Angiogenin	A00146-3	rat	WB,ELISA
	A00146	human	WB,IHC,ICC/IF,FCM,ELISA
Angiopoietin-1	BA0188	human	WB,IHC
	BM4539	human	WB
ANGPT2	BA1530-1	human,mouse,rabbit,rat	IHC

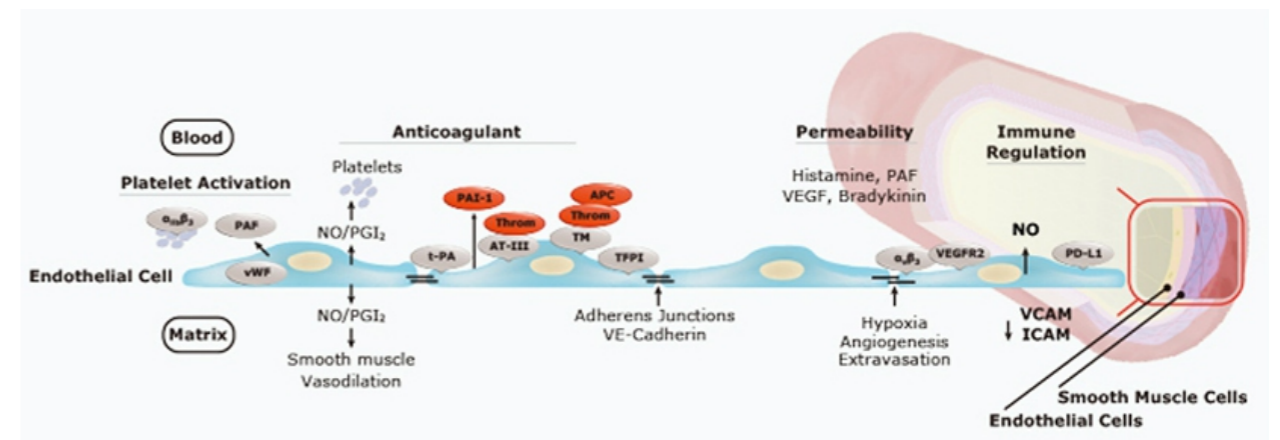
产品名称	货号	应用种属	应用范围
ANGPT2	BM5297	human,mouse,rat	WB,IHC
	A00370-2	human,mouse,rat	WB,ICC/IF,FCM,IHC,ELISA
CD31	A01513-3	human,mouse,rat	WB,IHC,ELISA
	BA1346	human	WB,IHC,IF,FCM
	M01513-4	human	WB,IHC
COL1A1	BA0325	human,mouse,rat	WB,IHC,IF,ICC/IF
	PB0980	human,mouse,rat	WB,IHC,IF
	M01411	human	WB,IHC,IF
COL4A2	BA3626	human,mouse,rat	WB,IHC,ICC/IF
EGF	BM5086	human	WB,IP

产品名称	货号	应用种属	应用范围
EGF	PB0903	human	WB,ELISA
	BA4741	mouse	WB,IHC
	A00378-1	rat	WB,IHC,ELISA
FGF1	BA14913	human	WB,IHC,ELISA
	BM5544	human	WB
FGF2	A00121-3	human,mouse,rat	WB,IHC,ICC/IF
	BA14189	human	WB,ICC/IF,FCM,ELISA
	MA00121	human,mouse,rat	WB,IHC,IF
Fibronectin	BA1772	human,mouse,rat,monkey	WB,IHC,IF
FN	BA1771	human	WB,IHC,FCM,ELISA
IGF1	BA0939	human,mouse,rat	WB,IHC
IL-1 beta	A00101	human,mouse,rat	WB
	BM4157	human	WB
IL12B	A01152-3	mouse,rat	WB,IHC,ELISA
Integrin Alpha V	BM5155	human,mouse,rat	WB,IHC,ICC/IF,IP
	A01561-2	human	WB,FCM
	M01561-2	human,rat	WB,ICC/IF,IHC

产品名称	货号	应用种属	应用范围
PDGF-AA	A02257-1	human,mouse,rat	WB,ICC/IF,ELISA
PDGF-BB	PB0346	human	WB
PDGF-CC	A03092-2	human	WB,FCM,ELISA
PLGF	A01164-1	mouse,rat	WB,ELISA
	BM5287	human	WB
TGF Beta 1	A00019-2	rat	IHC
	MA00019	human,mouse,rat	WB,IF
THBD	A01325-3	human,rat	WB,IHC,ICC/IF,FCM,ELISA
Thrombopoietin	A03222-1	mouse,rat	WB,IHC,ELISA
TIMP2	PB0875	human,mouse,rat	WB
	BA0576	human,mouse,rat	IHC,ELISA
TNF Alpha	BA0131	human,mouse,rat	WB,IHC,FCM
	PB9071	human,mouse,rat	FCM,WB,IHC
VEGFA	BM3995	human,mouse	IHC,ICC/IF,IP,FCM
	MA00045	human,dog	WB,IHC,ICC/IF
	PB9869	human,mouse,rat	WB,IHC
VEGFD	PB9869	human,mouse,rat	WB,IHC
	M32333-2	human,mouse,rat	WB,IHC,ICC/IF,FCM

二. 内皮细胞标记物

内皮细胞是一薄层的专门上皮细胞，由一层扁平细胞所组成，呈多边形，细胞的边缘呈锯齿状，相互嵌合。它形成血管的内壁，是血管腔内血液及其他血管壁（单层鳞状上皮）的接口。血管内皮细胞除了完成血液和组织液的代谢交换外，还可以产生和分泌多种生物活性物质，具有维持正常的血管张力，影响炎症反应的发生、发展，参与调节机体的免疫应答，合成致栓及抗栓物质，维持其动态平衡。



产品名称	货号	应用种属	应用范围
CD105	BA2227	mouse,rat	WB,IHC
	MA02997	human	WB,IHC,ICC/IF
	A02997-3	human	WB,IHC,IF,FCM,ELISA
CD146	A01683	mouse,rat	WB,IHC,IF,FCM,ELISA
	M01683-3	human	WB,IHC,FCM
	PB0238	human	WB,IHC
	A01683	mouse,rat	WB,IHC,IF,FCM,ELISA
CD31	M01513-4	human	WB,IHC
	A01513-3	human,mouse,rat	WB,IHC,ELISA
	BA1346	human	WB,IHC,IF,FCM
CD34	BM4082	human,mouse,rat,dog	WB,IHC,ICC/IF,IP

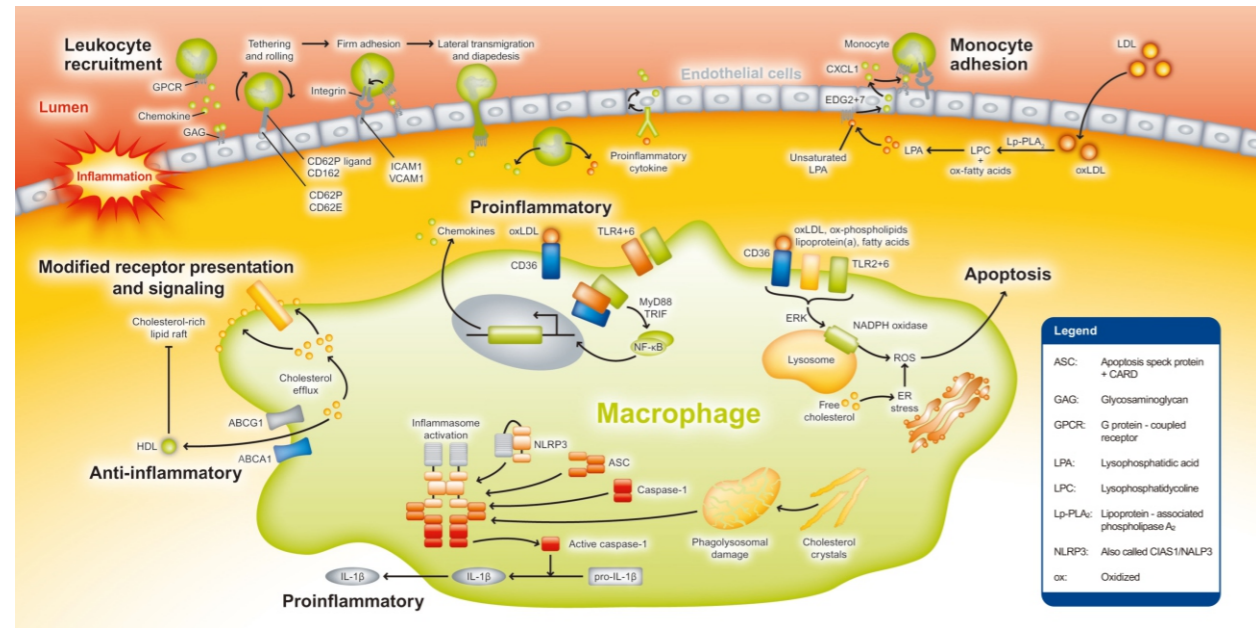
产品名称	货号	应用种属	应用范围
CD34	BA0532	human,mouse,rat	WB,IHC,FCM
CD45	A00555-4	mouse,rat	WB,IHC,ICC/IF,ELISA
	M00555-5	human	WB,IHC,IF,FCM
ICAM1	A00171-2	human	WB,FCM,ELISA
	PB9018	mouse,rat	WB,IHC
	BM4262	human	WB,IHC,ICC/IF,FCM
LYVE1	BM4905	human,mouse,rat	WB
TIE2	A01274-2	human,mouse,rat	IHC,ICC/IF,FCM,WB,ELISA
VCAM1	A01199-2	mouse,rat	WB,IHC,ELISA
	A01199-1	human	WB,ELISA

产品名称	货号	应用种属	应用范围
VCAM1	BM4289	human,mouse,rat	WB,IHC,ICC/IF
VE-Cadherin	A02632-2	mouse,rat	WB,IHC,ELISA
	BA3032	human,mouse,rat	WB,IHC
	BM4867	mouse	WB,ICC/IF,IP
VEGFR2	BA0472	human	WB,IHC,ICC/IF

产品名称	货号	应用种属	应用范围
VEGFR2	A00901-3	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
VWF	PB9273	mouse,rat	WB,IHC,IF
	PB9062	human	IHC,WB,FCM
	BM4860	human	WB,IHC

三. 动脉粥样硬化

动脉粥样硬化(atherosclerosis,AS)是冠心病、脑梗死、外周血管病的主要原因。脂质代谢障碍为动脉粥样硬化的病变基础，其特点是受累动脉病变从内膜开始，一般先有脂质和复合糖类积聚、出血及血栓形成，进而纤维组织增生及钙质沉着，并有动脉中层的逐渐蜕变和钙化，导致动脉壁增厚变硬、血管腔狭窄。病变常累及大、中肌性动脉，一旦发展到足以阻塞动脉腔，则该动脉所供应的组织或器官将缺血或坏死。



产品名称	货号	应用种属	应用范围
ABCG1	BA3853-2	human,mouse,rat	WB
ABCG5	A01503-2	human,mouse,rat	WB,IHC
ALDH2	M00546-1	human,mouse,rat	WB,FCM,ICC/IF
	PB0494	human,mouse,rat	WB,IHC,ICC/IF,FCM
APOE	BM4412	human,mouse	WB,IHC,ICC/IF,IP
	PB1039	mouse,rat	WB,IHC,ICC/IF,IF
Apolipoprotein A II	BM5624	human,rat	WB
Apolipoprotein AI	PB9845	rat	WB,IHC
	BM4428	human,mouse	WB,IHC,ICC/IF,IP
CCR2	A00158-4	human,mouse,rat	WB,ELISA
	BM3958	human,mouse	IHC,IP,FCM
CCR5	A00061	human,mouse,rat	WB
CD31	A01513-3	human,mouse,rat	WB,IHC,ELISA
	BM4213	human	WB,IHC,IP,FCM
CD36	A01189-1	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4633	human,mouse,rat	WB,IP
CRP	A00249-4	human,mouse	WB,IHC

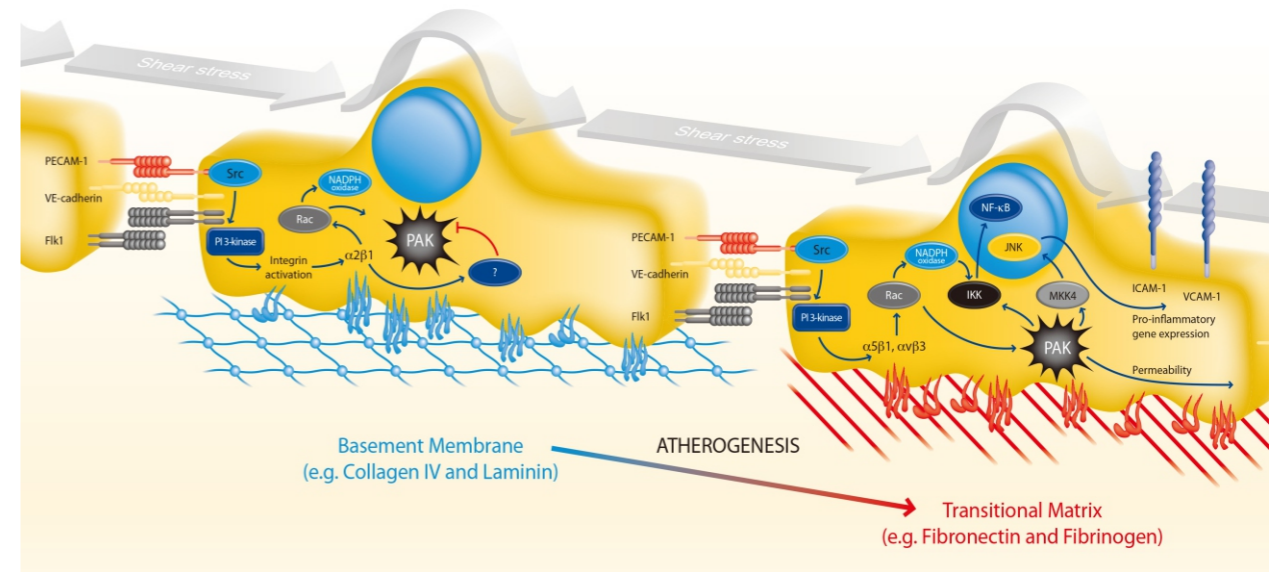
产品名称	货号	应用种属	应用范围
CRP	A00249-2	rat	WB,IHC,ELISA
	BM4227	human	WB,IHC,IP
CXCL4	BM5269	human,rat	WB,IHC,IP
	PB1063	mouse	WB,IHC,ELISA
FGF1	BA14913	human	WB,IHC,ELISA
	BM5544	human	WB
FGF2	A00121-3	human,mouse,rat	WB,IHC,ICC/IF
	MA00121	human,mouse,rat	WB,IHC,IF
	BA14189	human	WB,ICC/IF,FCM,ELISA
Fractalkine	PA1400	human	WB
	BA4112	mouse,rat	WB,IHC
ICAM1	BM4262	human	WB,IHC,ICC/IF,FCM
	A00171	human,mouse,rat	WB,IHC,ICC/IF,FCM
IL-1 beta	A00101	human,mouse,rat	WB
	BM4157	human	WB
IL6	RP1012	human	WB
	BA4339	mouse,rat	WB,IHC

产品名称	货号	应用种属	应用范围
Integrin Beta 3	BM4120	human,mouse,rat	WB,IHC,ICC/IF
	BA1670	human,mouse,rat	WB,IHC,FCM
LCAT	PB0698	human,mouse,rat	WB
	M00906	human,mouse,rat	WB,IHC,ICC/IF,IP
LDLR	A00076-2	human,rat	WB,IHC,FCM,ELISA
	BM4118	human,mouse	WB,IHC,ICC/IF,FCM
NOX4	BA2813	human,mouse,rat	WB,IHC,FCM
	BM4135	human,mouse,rat	WB,IHC,ICC/IF,IP
SELPLG	A03674-4	mouse,rat	WB,IHC,FCM,ELISA
	BM5618	human	WB
SOD1	PB0453	human,mouse,rat	WB,IHC,ICC/IF,FCM

产品名称	货号	应用种属	应用范围
SOD1	BA1401	human,mouse,rat	WB,IHC,ICC/IF
SOD2	PB9442	human,mouse,rat	WB,IHC,ICC/IF
	BA4566	human,mouse,rat	WB,IHC,ICC/IF
SOD3	A01784-4	human,mouse,rat	WB,ELISA
	A01784-5	mouse,rat	WB,ELISA
TLR2	BM4001	human,mouse,rat	WB
	A00131	human,mouse,rat	WB
VCAM1	A01199-2	mouse,rat	WB,IHC,ELISA
	BM4289	human,mouse,rat	WB,IHC,ICC/IF
VEGFA	PB9071	human,mouse,rat	FCM,WB,IHC
	BM3995	human,mouse	IHC,ICC/IF,IP,FCM

四. 整合素信号在单纯应激诱导的内皮细胞功能障碍中的作用

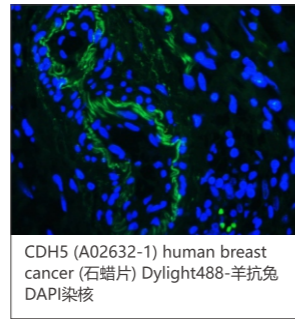
跨膜蛋白整合素家族由18个和8个亚基组成，形成24个不同的异二聚体，作为细胞外基质(ECM)或细胞表面分子的受体。整合素将细胞骨架与动脉粥样硬化血管平滑肌细胞迁移所必需的ECM连接起来。在心血管生物学和疾病中，基质重塑和改变组织刚度调节整合素信号和细胞增殖。



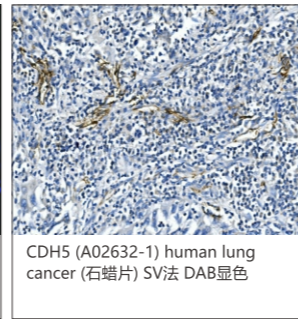
产品名称	货号	应用种属	应用范围
COL4A1	M01411	human	WB,IHC,IF
COL4A2	BA3626	human,mouse,rat	WB,IHC,ICC/IF
Fibronectin	BA1772	human,mouse,rat,monkey	WB,IHC,IF
FN	BA1771	human	WB,IHC,FCM,ELISA
ICAM1	BM4262	human	WB,IHC,ICC/IF,FCM
	A00171	human,mouse,rat	WB,IHC,ICC/IF,FCM
IKK Alpha	PB9110	human	WB,IHC
	BM4572	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
Integrin Alpha V	BM5155	human,mouse,rat	WB,IHC,ICC/IF,IP
	A01561-2	human	WB,FCM
	M01561-2	human,rat	WB,ICC/IF,IP
Integrin Alpha-5	BM4815	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	A01911	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA

产品名称	货号	应用种属	应用范围
Integrin Beta 1	BM4308	human,mouse,rat	WB,IHC
	PB9086	human,rat	WB,IHC
Integrin Beta 3	BM4120	human,mouse,rat	WB,IHC,ICC/IF
	BA1670	human,mouse,rat	WB,IHC,FCM
Integrin Beta 2	BA0959	human	WB,IHC
	PB9141	human	WB,IHC,IF
Integrin Beta 4	PB9007	human	WB,IHC,IF,FCM
	M01015-2	human	WB,ICC/IF,FCM
	A01015-2	human,mouse,rat	WB,IHC,IF,FCM,ELISA
ITGA1	BA1731	human,mouse,rat	WB,IHC
ITGA2	A01933-2	human	WB,FCM,ELISA
	BM4621	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM

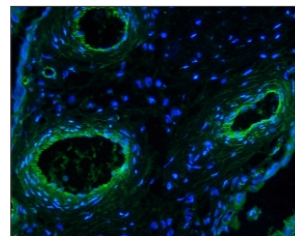
产品名称	货号	应用种属	应用范围
ITGA2	A01933-2	human	WB,FCM,ELISA
ITGA3	A02902-1	human	WB,IHC,ICC/IF,FCM,ELISA
	A02902	human,mouse,rat	WB,IHC,ICC/IF,FCM
ITGA4	PB0687	human,mouse,rat	WB,IHC,FCM
JNK1/2/3	BM4329	human,mouse,rat,cow,dog,monkey,zebrafish	WB,ICC/IF,IP
JNK1/2/3(Phospho-T183+T221)	BM4380	human,mouse,rat	WB,IHC,ICC/IF,IP
LAMC1/2/3	A03522	human,mouse,rat	WB,IHC,IF
Laminin Alpha 4	M04999	human,mouse,rat	WB,IHC
PAK1	A00454-2	human,mouse,rat	WB,IHC,FCM,ICC/IF,ELISA
	BM5429	human,mouse,rat	WB
PIK3R1	A00318-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM5187	human,mouse,rat	WB
RAC1	BM5070	human,mouse,rat	WB
SRC	BM4873	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BA1404-1	human,mouse,rat	WB
VEGFR2	A00901-3	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM0864	human	WB,IHC



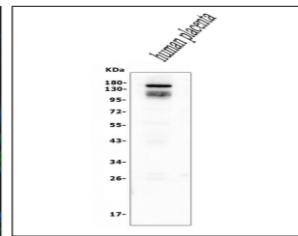
CDH5 (A02632-1) human breast cancer (石蜡片) Dylight488-羊抗兔 DAPI染核



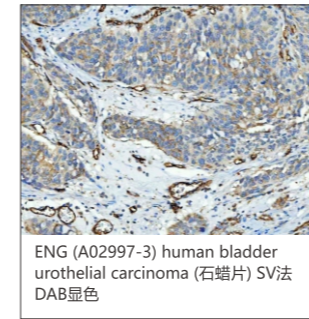
CDH5 (A02632-1) human lung cancer (石蜡片) SV法 DAB显色



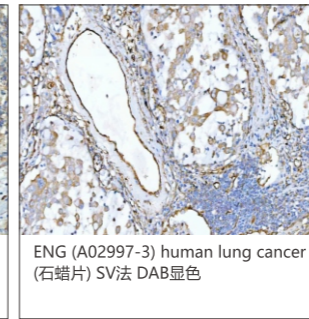
CDH5 (A02632-1) human placenta (石蜡片) Dylight488-羊抗兔 DAPI染核



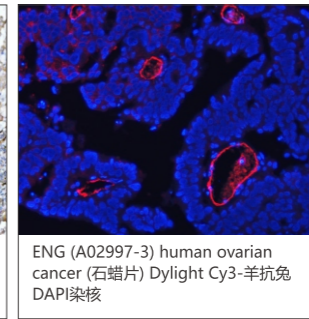
CDH5 (A02632-1) Rabbit polyclonal antibody Western blot



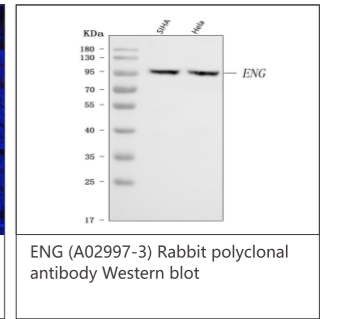
ENG (A02997-3) human bladder urothelial carcinoma (石蜡片) SV法 DAB显色



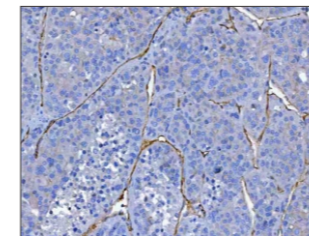
ENG (A02997-3) human lung cancer (石蜡片) SV法 DAB显色



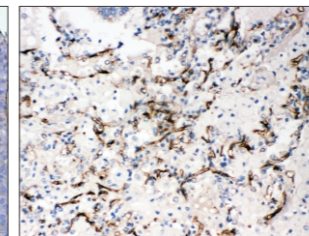
ENG (A02997-3) human ovarian cancer (石蜡片) Dylight Cy3-羊抗兔 DAPI染核



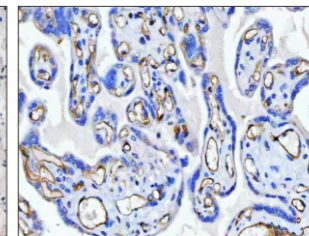
ENG (A02997-3) Rabbit polyclonal antibody Western blot



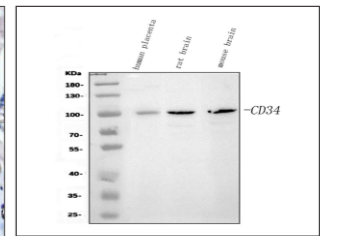
CD34 (BA0532) human liver cancer (石蜡片) SV法 DAB显色



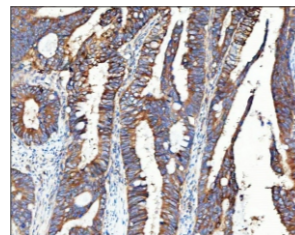
CD34 (BA0532) human lung cancer (石蜡片) SV法 DAB显色



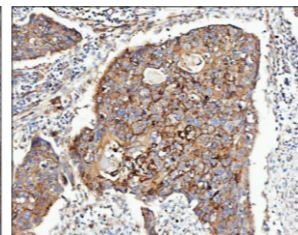
CD34 (BA0532) human placenta (石蜡片) SV法 DAB显色



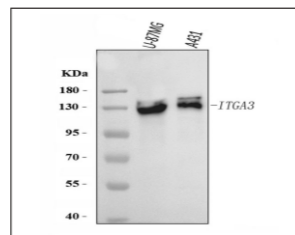
CD34 (BA0532) Rabbit polyclonal antibody Western blot



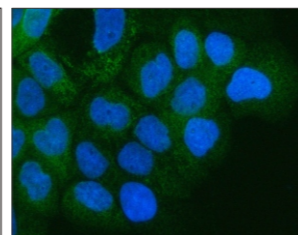
ITGA3 (A02902-1) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色



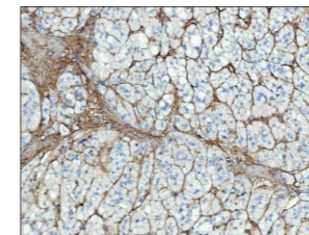
ITGA3 (A02902-1) human esophageal squamous carcinoma (石蜡片) SV法 DAB显色



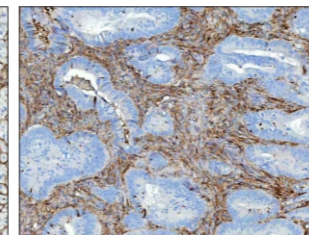
ITGA3 (A02902-1) Rabbit polyclonal antibody Western blot



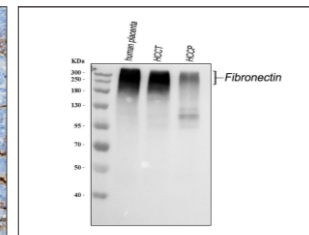
ITGA3 (A02902-1) U2OS Cell Dylight488-羊抗兔 DAPI染核



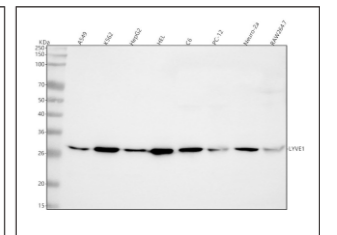
FN1 (BA1771) human adrenocortical adenoma (石蜡片) SV法 DAB显色



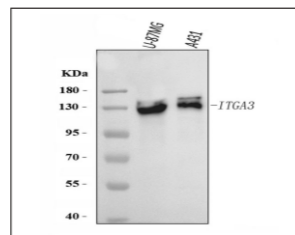
FN1 (BA1771) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色



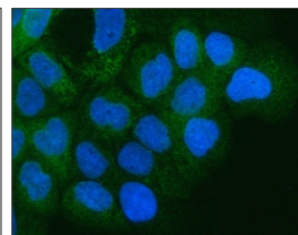
FN1 (BA1771) Rabbit polyclonal antibody Western blot



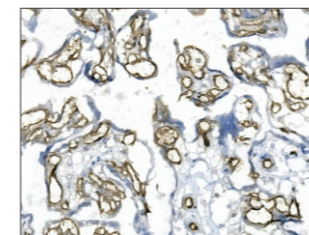
LYVE1 (BM4905) Rabbit monoclonal antibody Western blot



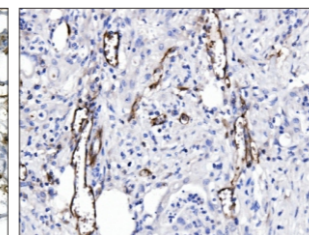
VWF (A00270-1) human colon cancer (石蜡片) SABC法 DAB显色



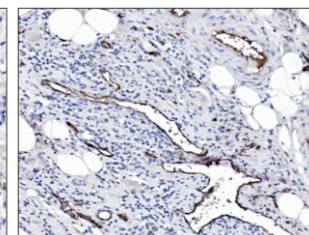
VWF (A00270-1) human lung cancer (石蜡片) SABC法 DAB显色



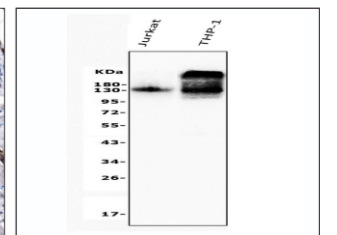
CD31 (M01513-4) human placenta (石蜡片) SABC法 DAB显色



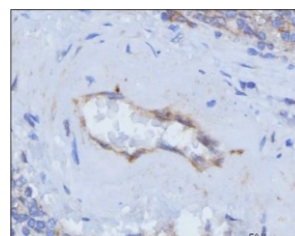
CD31 (M01513-4) human rectal cancer (石蜡片) SABC法 DAB显色



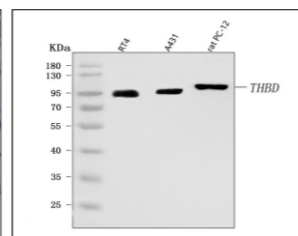
CD31 (M01513-4) human rectal cancer (石蜡片) SABC法 DAB显色



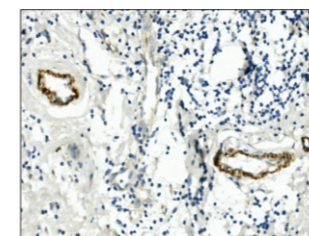
CD31 (M01513-4) Mouse monoclonal antibody Western blot



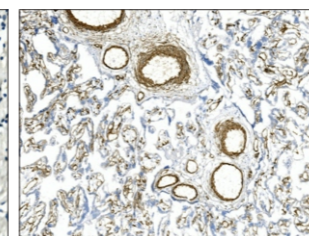
THBD (A01325-3) human spleen (石蜡片) SV法 DAB显色



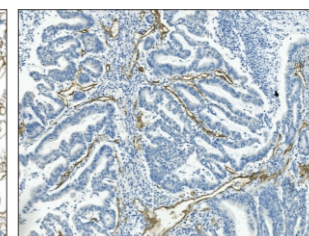
THBD (A01325-3) Rabbit polyclonal antibody Western blot



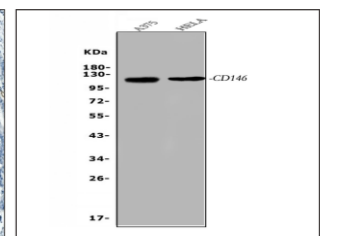
MCAM (M01683-3) human mammary cancer (石蜡片) SABC法 DAB显色



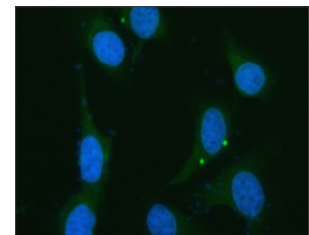
MCAM (M01683-3) human placenta (石蜡片) SABC法 DAB显色



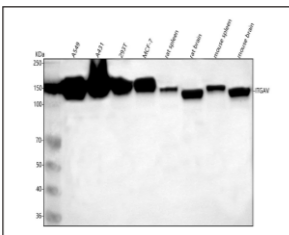
MCAM (M01683-3) human rectal cancer (石蜡片) SABC法 DAB显色



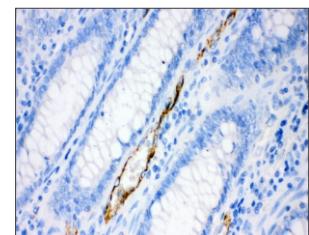
MCAM (M01683-3) Mouse monoclonal antibody Western blot



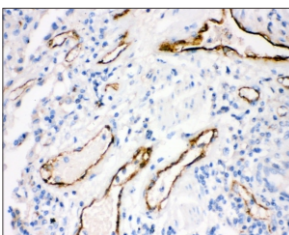
ITGAV (BM5155) HeLa Cell Dylight488-羊抗兔 DAPI染核



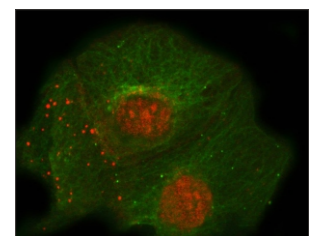
ITGAV (BM5155) Rabbit monoclonal antibody Western blot



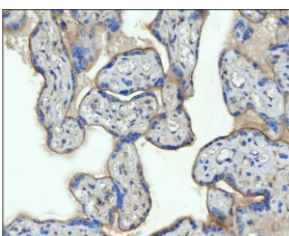
VWF (A00270-1) human colon cancer (石蜡片) SABC法 DAB显色



VWF (A00270-1) human lung cancer (石蜡片) SABC法 DAB显色



THBD (A01325-3) A431 Cell Dylight Cy3-羊抗兔 Tubulin alpha-1A (green) DAPI染核

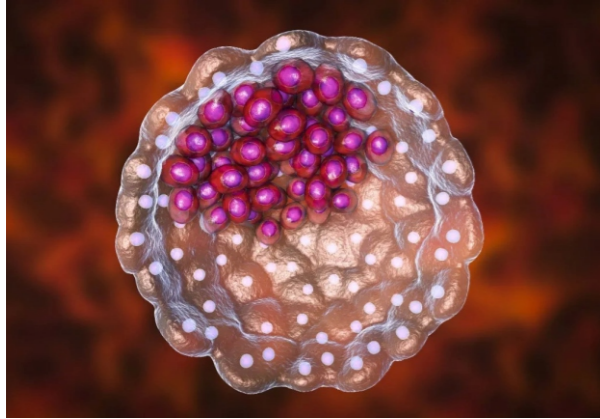


THBD (A01325-3) human placenta (石蜡片) SV法 DAB显色

第五章 干细胞标记

一. 胚胎干细胞

胚胎干细胞 (ESCs) 是早期胚胎 (原肠胚期之前) 或原始性腺中分离出来的一类细胞, 它具有体外培养无限增殖、自我更新和多向分化的特性。无论在体外还是体内环境, ES细胞都能被诱导分化为机体几乎所有的细胞类型。

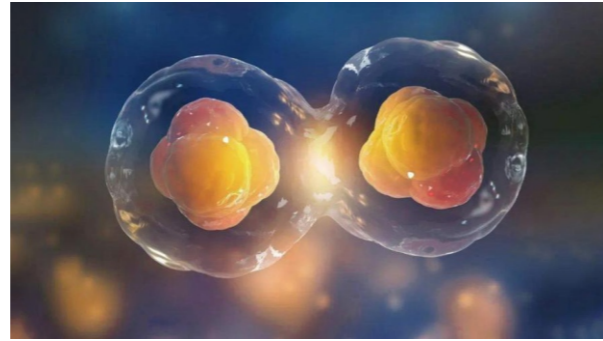


产品名称	货号	应用种属	应用范围
BMP4	A00321	human,mouse,rat	WB,ELISA
	MA00321	human,mouse,rat	WB,IF
c-MYC	PB9092	human,mouse,rat	WB,ICC/IF
	BM4042	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	BM4376	human,mouse,rat	WB,IHC,ICC/IF,IP
ESRRB	M03473	human,mouse,rat	WB
FGF2	A00121-3	human,mouse,rat	WB,IHC,ICC/IF
FGF4	BA0848-2	human,mouse,rat	WB
	BA0848-1	human,mouse,rabbit,rat	IHC
Foxd3	M04495-1	human,mouse,monkey	WB,IHC,ELISA
KLF4	A00120-3	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4916	human,mouse,rat	WB,IHC,ICC/IF
LEFTY1	M06558-2	human,mouse,rat	WB,IP
NANOG	A00153-4	mouse,rat	WB,ICC/IF,FCM,ELISA
	A00153-3	human,mouse,rat	WB,FCM
OCT4/POU5F1	A00174-1	human,mouse,rat	WB,FCM,ELISA
	MA00174	human	WB,IHC,IF
Rest	BM5355	human	WB
STAT3	BM4052	human,mouse,rat	WB,IHC,ICC/IF,FCM
	PB0540	human,monkey,mouse,rat	WB,IHC
Smad1	PB0444	human,mouse,rat	WB
	M00728-4	human,mouse,rat	WB,IHC
SOX2	BA3292	human,mouse,rat	WB,IHC
	BM4147	human,mouse	WB,IHC,ICC/IF
SOX17	A01665-2	human	WB,ELISA

二. 间充质干细胞

间充质基质/干细胞 (MSCs) 来源于发育早期的中胚层和外胚层, 属于多能干细胞, 具有多向分化潜能, 可分化为脂肪、骨、软骨、肌

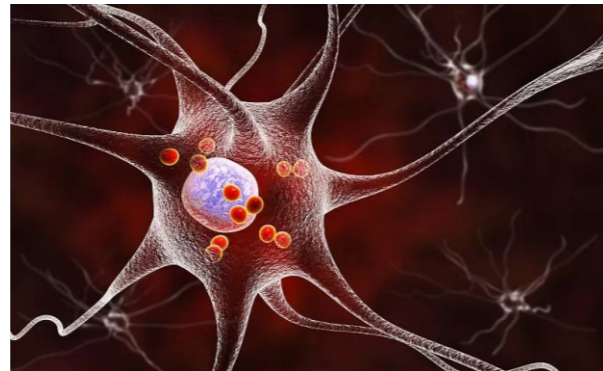
肉、肌腱、韧带、神经、肝、心肌、内皮等多种组织细胞, 主要存在于全身结缔组织和器官基质中, 以骨髓组织中含量最多。



产品名称	货号	应用种属	应用范围
CD29/ITGB1	BM4308	human,mouse,rat	WB,IHC
CD44	A00052	human,mouse,rat	WB,IHC,IF,FCM,ELISA
CD54/ICAM-1	A00171	human,mouse,rat	WB,IHC,ICC/IF,FCM
CD72	A09292-1	human	WB,ELISA
	A09292-2	mouse,rat	WB,IHC,FCM,ICC/IF,ELISA
CD73	MA02120	human,mouse,rat	WB,IHC
	A02120-2	mouse,rat	WB,IHC,FCM,ELISA
CD90/THY1	A01818	mouse,rat	WB,IHC,IF,FCM,ELISA
	BM4938	human	WB,IHC,ICC/IF
CD102/ICAM-2	A03965	human,rat	WB,ELISA
	M04901-1	mouse	WB,IHC,IP
CD105/ENG	A02997-3	human	WB,IHC,IF,FCM,ELISA
	A02997-2	mouse,rat	WB,IHC,ELISA
CD146/MCAM	BM4093	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
CD150/SLAMF1	M03988-1	human	WB,IP,FCM
	A03988-2	human	IHC,FCM,ELISA
CD166	BM5440	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	A01788-1	human,mouse,rat	WB,IHC,IF,FCM

三. 神经干细胞

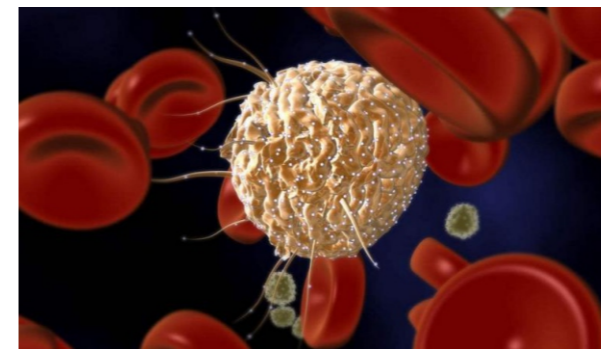
神经干细胞(neural stem cell)是指存在于神经系统中, 具有分化为神经元、星形胶质细胞和少突胶质细胞的潜能, 从而能够产生大量脑细胞组织, 并能进行自我更新, 并足以提供大量脑组织细胞的细胞群。



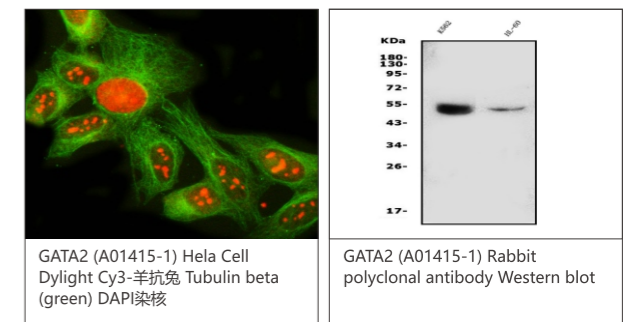
产品名称	货号	应用种属	应用范围
AChE	PB0382	human,mouse,rat	WB
	BA0600-1	human,mouse,rabbit,rat	IHC
APP/BetaAmyloid	PB9091	human,mouse,rat	WB,IHC,ICC/IF,FCM
	MA00081	human,mouse,rat	WB,IHC,IF,FCM
BDNF	PB9075	human,mouse,rat	WB,IHC,FCM
	BM4113	human,mouse,rat	WB,IHC,ICC/IF
CXCR4	A00031-4	human,mouse,rat	WB,FCM,ELISA
	PA1237	human,mouse,rat	WB,IHC
CNTF	PB9067	mouse,rat	WB,IHC,ELISA
	PB9012	human	WB,IHC
FGF1	PB0988	human,mouse,rat	WB,IHC,ELISA
	BM5544	human,mouse,rat	WB,IHC
FGF2	A00121-3	human,mouse,rat	WB,IHC,ICC/IF
FGF23	A00478-3	mouse,rat	WB,ELISA
GFAP	BA0056	human,mouse,rat	WB,IHC,IF
	BM0055	human,mouse,rat,pig	WB,IHC,IF
INHBA	BM4287	human,mouse,rat	WB,IHC,ICC/IF
	M06777	human,mouse,rat	WB
NRF2	A00078-1	human	WB,IHC,ICC/IF,FCM,ELISA
	BM4842	human	WB,IHC,ICC/IF,IP,FCM
Nestin/NES	PB9874	human,mouse,rat	WB,IHC
	BM4494	human	IHC,ICC/IF
S100B	BA1289	human,mouse,rabbit,rat	WB,IHC
	BM4087	human,mouse,rat,goat	WB,IHC,ICC/IF,IP
SYN/Synaptophysin	BM0120	human,rabbit,rat	IHC
	A05049	human,mouse,rat	WB,IHC,IF,ICC/IF
SNCA/AlphaSynuclein	BM4152	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	MA00215	human,mouse,rat	WB,IHC
SNAI2	A00215-3	human,mouse,rat	WB,IHC,ICC/IF,ELISA
	PB9439	human,mouse,rat	WB,IHC
SOX2	M01615-3	human,mouse,rat	WB,FCM
	BA3292	human,mouse,rat	WB,IHC
SOX9	BM4147	human,mouse	WB,IHC,ICC/IF
	BM4268	human,mouse,rat	WB,IHC,ICC/IF

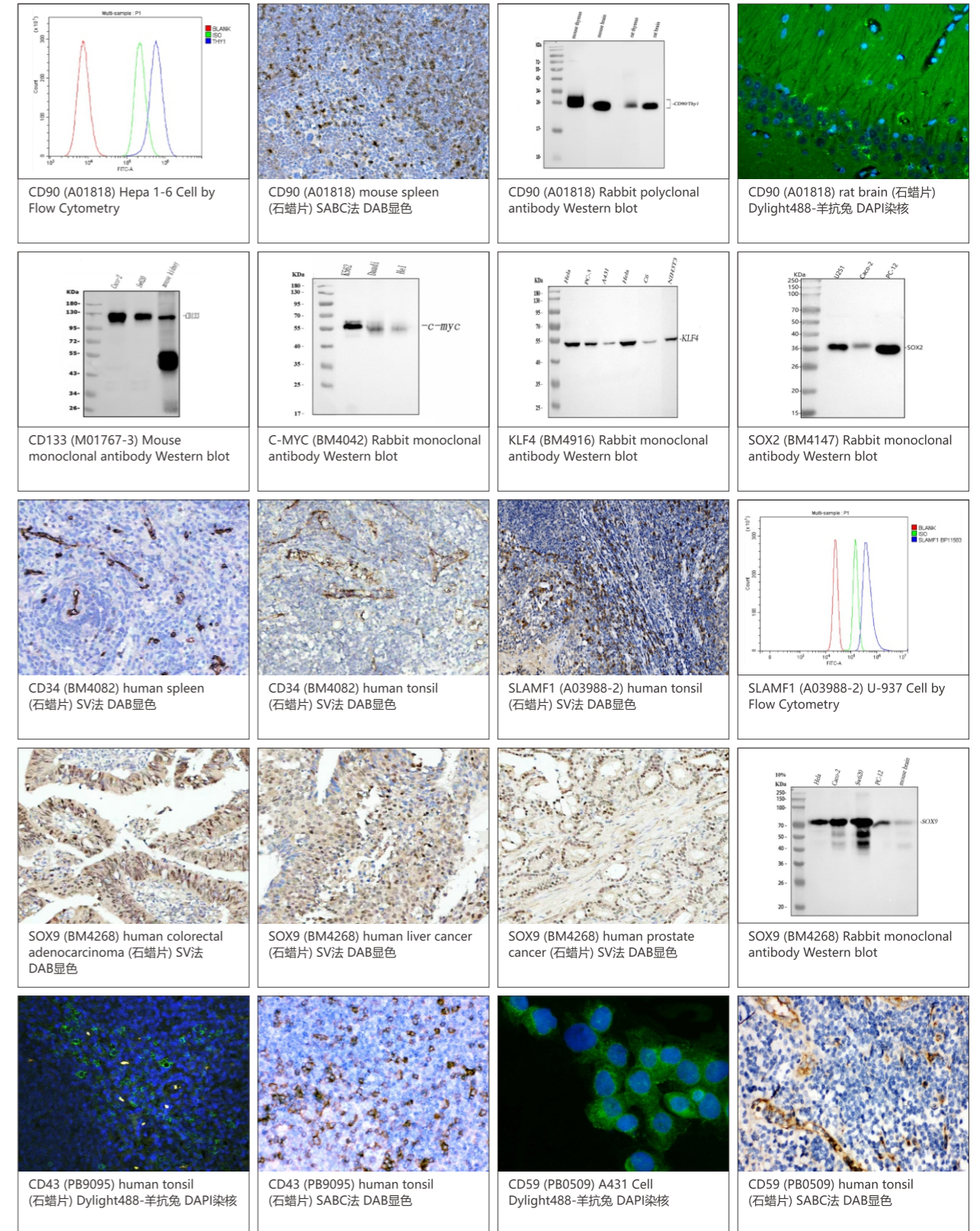
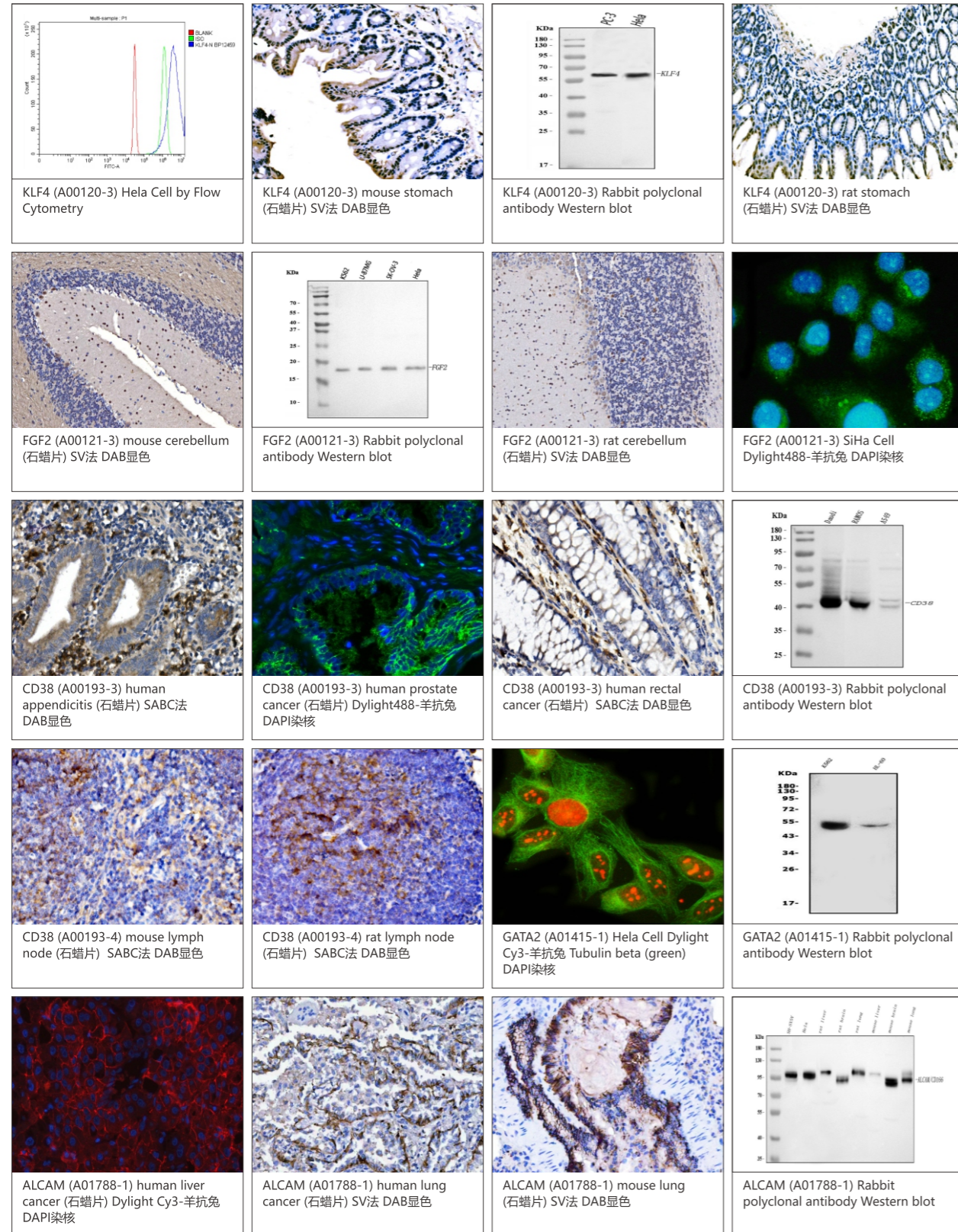
四. 造血干细胞

造血干细胞(Hematopoietic stem cell, HSC)是指骨髓中的干细胞, 具有自我更新能力并能分化为各种血细胞前体细胞, 最终生成各种血细胞成分, 包括红细胞、白细胞和血小板, 它们也可以分化成各种其他细胞。目前只有骨髓、外周血、脐带血和胎盘四种来源。



产品名称	货号	应用种属	应用范围
APLN/APJ	A05042-1	human,mouse	WB,IHC,FCM,ELISA
CD133/PROM1	A01767-4	mouse,rat	WB,IHC,ELISA
	A01767-3	human	WB,ICC/IF,FCM,ELISA
	PB9156	human	WB,IHC,FCM
	M01767-3	human,mouse	WB,FCM
CD34	BA0532	human,mouse,rat	WB,IHC,FCM
	PB9053	human,rat	WB,IHC,IF,ELISA
	BM4082	human,mouse,rat,dog	WB,IHC,ICC/IF,IP
CD38	A00193-4	mouse,rat	IHC
	A00193-3	human	WB,IHC,IF,ICC/IF,FCM
CD43/SPN	PB9095	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	M01296-1	human,mouse,rat	WB,IHC,FCM
CD49	BM4621	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	BM5003	human	WB,ICC/IF,IP,FCM
CD59	PB0509	human	WB,IHC,ICC/IF,FCM
	A00914	mouse,rat	WB,IHC,ELISA
	A01818-1	human,mouse,rat	WB,ELISA
CD90/THY1	BM4938	human	WB,IHC,ICC/IF
	A01818	mouse,rat	WB,IHC,IF,FCM
CD117/c-Kit	PB9258	human	WB,IHC,FCM
CD235A/GlycophorinA	BM5354	human	WB,IHC,FCM
	A02184-2	human	WB,IHC
G-CSF/CSF3	BM5093	human,mouse,rat	WB,ICC/IF
GATA2	A01415-1	human	WB,ICC/IF,FCM,ELISA
	BM4342	human,mouse,rat	WB,IHC,ICC/IF,IP
KDR	BA0472	human	WB,IHC,ICC/IF
	A00901-3	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
LY6A	M00901-2	human,mouse,rat	WB
	A30403	mouse	WB,IHC,FCM
RUNX1	PB9157	human,mouse,rat	WB,IHC
TAL-1	M00944-2	human,mouse,rat	WB,IF,FCM
	A00944-2	human,mouse,rat	WB,ELISA

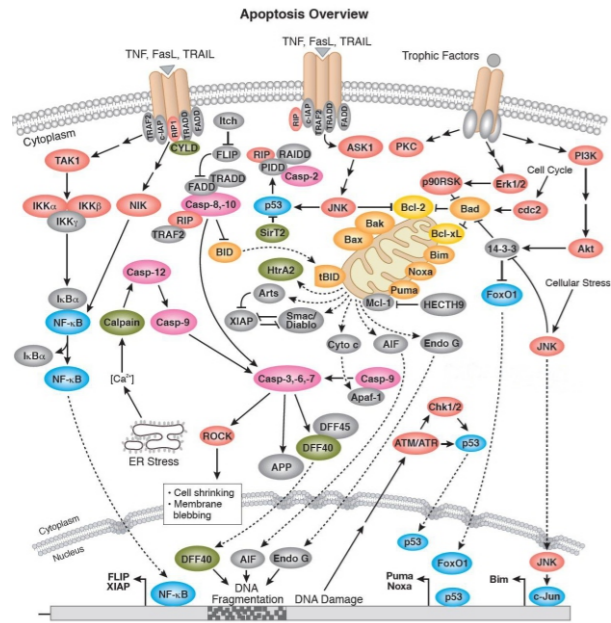




第六章 细胞死亡

一. 凋亡酶caspase通路

细胞凋亡是一种受调节的细胞自杀机制,通常表现为核浓缩、起皱、膜发泡以及DNA片段化。Caspase家族属于半胱氨酸蛋白酶。起始组Caspase包括caspase-2,-8,-9,-10,-11和-12,与促凋亡信号紧密相连,一旦激活,这些酶会切割并激活下游的效应组Caspase,包括Caspase-3,-6,-7,效应Caspase通过对细胞内蛋白特定的天冬氨酸残基位置处进行切割实现细胞的凋亡。FasL和TNF对Fas和TNFR的结合能够激活caspase-8和-10, DNA损伤诱导PIDD的表达, PIDD与RAIDD和caspase-2结合并激活caspase-2。



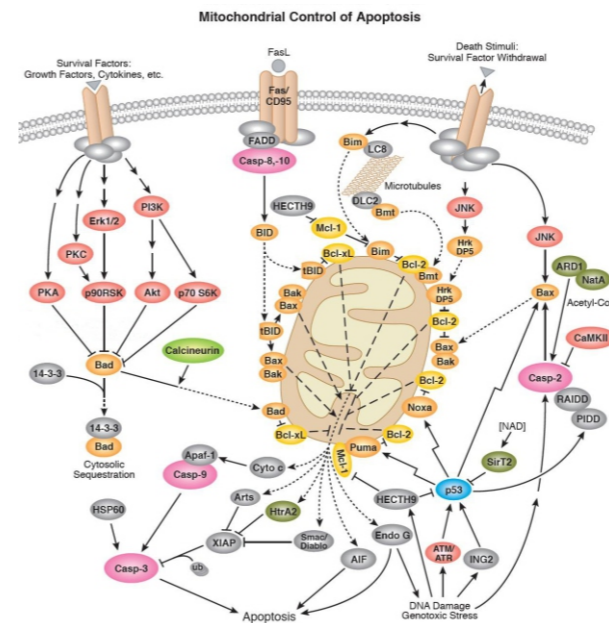
产品名称	货号	应用种属	应用范围
AIF	M01571-1	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
Beta Amyloid	BM4128	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	BA0581	human,mouse,rabbit,rat	WB,IHC
BID	PB9027	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00730-Dy488	human	FCM
	A00730-Dy550	human	FCM
Caspase 9(large)	BA3974	human	WB,IHC
Caspase1(p10)	BA0586	human	WB,IHC
Caspase 1(p10+p12)	M00048-2	human,mouse,rat	WB,IP
Caspase 1(p20)	PA1440	human	WB,IHC
	BA2220	mouse,rat	WB,IHC
Caspase 10	BM4584	human,mouse	WB,IHC,ICC/IF
	BM4811	human	WB,IHC,IP,FCM
Caspase 2	A02384-1	human,mouse,rat	WB,IHC,ELISA
	BM4333	human,mouse,rat	WB,IHC,ICC/IF
Caspase 2(large)	BA2141	human,mouse,rat	WB,IHC
Caspase 2(p12)	PB0396	human,mouse,rat	WB
Caspase 2(small)	BA0587	human,mouse,rat	WB

产品名称	货号	应用种属	应用范围
Caspase 3	BM3954	human,mouse	WB,IHC,ICC/IF
	BM3957	human,rat	WB,IHC,ICC/IF,IP
Caspase 3(p12)	BA3592	human	WB,IHC,ICC/IF
	BM4620	human,mouse,rat	WB,IHC,ICC/IF
Caspase 3(p17)	BM3937	human	WB,IHC,ICC/IF
	PB9188	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00334-Dy488	human	FCM
	A00334-Dy550	human	FCM
Caspase 3(active+pro)	BM4340	human	WB,IHC,IP
Caspase 4	A02941-1	human	WB,IHC,IF,ICC/IF,FCM,ELISA
	A02941-2	human,mouse,rat	WB,ICC/IF,ELISA
Caspase 6	BM4681	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
Caspase 6(large)	BA3969	human	WB,IHC,FCM
Caspase 6(p18)	BA3328	mouse,rat	WB,IHC
	BM4592	human	WB,IP
Caspase 7	PA1442	human,mouse,rat	WB,IHC
	A01044-2	human,rat	WB,IHC,FCM,ELISA
	BM4418	mouse,rat	WB,IHC,IP
BM4679	human	WB,IHC,ICC/IF	
Caspase 8	A00042	human,mouse,rat	WB,IHC,FCM
Caspase 8(p10)	BA3721	human	WB,IHC
Caspase 8(CASP8(p18))	BA2143-2	human,mouse,rat	WB
Caspase 9	A00080-7	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	A00080-5	human	WB,IHC,ICC/IF,FCM,ELISA
	BM4619	human,mouse	WB,IHC,ICC/IF,IP
Caspase 9(p35)	PB0285	human	WB
Caspase 9(p10)	BA0690	human,mouse,rabbit,rat	WB,IHC
BIRC2	A01700-1	human,mouse,rat	WB,ICC/IF,FCM,ELISA
KRT18	A01357-1	human,mouse,rat	WB,IHC,IF
	BM4594	human,mouse,rat	WB,IHC,FCM,ICC/IF
M01357-4	human	WB,IHC,ICC/IF,IP,FCM	
	human	WB,IHC,ICC/IF,IP,FCM	
DFF45	A03671-4	human,rat	WB,FCM,ELISA
	M03671-1	human	WB,IHC,ICC/IF,IP,FCM
Lamin A/C	PB9280	human,mouse,rat	WB,IHC,IF,FCM,ICC/IF
	BM4105	human	WB,IHC,ICC/IF,IP,FCM
PARP1	PB9309	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
	M00122-4	human,mouse,rat	WB,IHC,ICC/IF,FCM
PARP1(Cleaved)	BM3941	human,mouse,rat	WB,IHC
PARP10	A08514-2	human	WB,FCM,ELISA
PARP2	M03270-1	human,mouse,rat	WB,ICC/IF,FCM
PARP3	A03762-2	human,mouse,rat,monkey	WB,IHC,ICC/IF,ELISA
PARP9	A08508-1	mouse,rat	WB,ELISA
ROCK1	A00722-4	human,monkey,mouse,rat	WB,FCM,ELISA
	BM4203	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
ROCK2	BM5257	human,mouse,rat	WB,ICC/IF
	A01023-1	human,mouse,rat	WB,FCM,ICC/IF,ELISA
	PB9387	human,mouse,rat	WB,IHC
Survivin	BM3975	human	WB,IHC,ICC/IF,IP,FCM
	PB0377	mouse	WB,IHC,FCM

产品名称	货号	应用种属	应用范围
Survivin	A00379	human,mouse,rat	WB,IHC,ELISA
	MA00379	human	WB,IF,FCM
ULK3	BM5324	human,mouse,rat	WB,IHC,ICC/IF,FCM
XIAP	BA2620	human,mouse,rat	WB,IHC

二. 线粒体凋亡通路

Bcl-2家族通过控制线粒体膜的通透性来调控凋亡。抗凋亡蛋白Bcl-2和Bcl-xL定位于线粒体外膜,抑制细胞色素C的释放。促凋亡的Bcl-2家族成员Bad, Bid, Bax和Bim可能定位于胞浆,在收到凋亡信号后,转移到线粒体中,促进细胞色素C的释放。Bad转移到线粒体后与Bcl-xL形成促凋亡复合体。这个转移过程被生存因子所抑制,生存因子引起Bad的磷酸化而后在胞浆中富集。被Fas活化的caspase-8剪切胞浆Bid,所形成的有效分子tBid转移到线粒体上。Bax和Bim在受到死亡刺激后转移到线粒体上,包括生存因子的消失。p53受DNA损伤的活化后能够诱导Bax, Noxa和Puma的转录。从线粒体中释放后,细胞色素C与Apaf-1结合并与caspase-9形成活性复合体。虽然在凋亡中线粒体通透性调节和细胞色素C释放的调节机制并没有完全阐明,但Bcl-xL, Bcl-2和Bax可能影响膜电位依赖的阴离子通道(VDAC, voltage dependent anion channel), 这可能在调节细胞色素C中发挥作用。Mule/ARF-BP1是一个DNA损伤激活的E3泛素连接酶,它针对p53和Mcl-1, Mcl-1是一个Bcl-2家族中的抗凋亡分子。



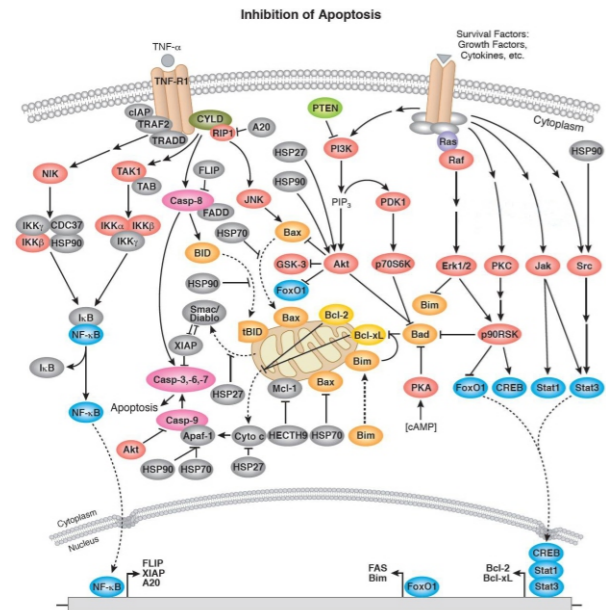
产品名称	货号	应用种属	应用范围
APAF1	A00889-2	human	WB,FCM,ELISA
BAD	BM4241	human,mouse,rat	WB,IHC,ICC/IF
	A03520-2	human	WB,IHC,FCM,ELISA
BAD(Phospho-S112)	BM5507	human,mouse,rat	WB
BAX	BM3964	human,mouse,rat,hamster	WB,IHC,IP,FCM

产品名称	货号	应用种属	应用范围
BAX	BA0315-1	human,mouse,rabbit,rat	IHC
	A00183-Dy488	human	FCM
	A00183-Dy550	human	FCM
BCL2	BA0412	human,mouse,rabbit,rat	IHC,WB
	A00040-2	human	WB,ICC/IF,FCM,ELISA
	A00040-1	human,mouse,rat	WB,IHC,FCM
	BM0200	human	WB,IHC,ICC/IF
	MA00040	human,mouse,rat	WB,IHC
	A00040-Dy488	human	FCM
A00040-Dy550	human	FCM	
	PB9027	human,mouse,rat	WB,IHC,ICC/IF,FCM
M00730-1	human	WB,IHC,ICC/IF,FCM	
	BA0229	mouse,rat	WB,IHC,FCM
Bim/BCL2L11	A01552-4	human,mouse	WB,IHC,FCM
Caspase 10	BM4584	human,mouse,rat	WB,IHC,ICC/IF
	BM4811	human	WB,IHC,IP,FCM
Caspase 2	A02384-1	human,mouse,rat	WB,IHC,ELISA
	BM4333	human,mouse,rat	WB,IHC,ICC/IF
Caspase 2(large)	BA2141	human,mouse,rat	WB,IHC
Caspase 2(p12)	PB0396	human,mouse,rat	WB
Caspase 2(small)	BA0587	human,mouse,rat	WB
Caspase 3	BM3954	human,mouse	WB,IHC,ICC/IF
	BM3957	human,rat	WB,IHC,ICC/IF,IP
Caspase 3(p12)	BA3592	human	WB,IHC,ICC/IF
	BM4620	human,mouse,rat	WB,IHC,ICC/IF
Caspase 3(p17)	BM3937	human	WB,IHC,ICC/IF
	PB9188	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00334-Dy488	human	FCM
A00334-Dy550	human	FCM	
Caspase 3(active+pro)	BM4340	human	WB,IHC,IP
Caspase 8	A00042	human,mouse,rat	WB,IHC,FCM
Caspase 8(p10)	BA3721	human	WB,IHC
Caspase 8(p18)	BA2143-2	human,mouse,rat	WB
Caspase 9	A00080-7	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	A00080-5	human	WB,IHC,ICC/IF,FCM,ELISA
	BM4619	human,mouse	WB,IHC,ICC/IF,IP
Caspase 9(p35)	PB0285	human	WB
Caspase 9(p35)	A00080-4	mouse,rat	WB,FCM,ELISA
Caspase 9(p10)	BA0690	human,mouse,rabbit,rat	WB,IHC
CASP9(large)	BA3974	human	WB,IHC
CD95	BM4868	human	WB,IHC,ICC/IF,FCM
	A00055	mouse,rat	WB,FCM,ELISA
CYCS	BA0484	mouse,rat	WB,IHC
	PB9334	human,mouse,rat	WB,IHC,ICC/IF,IF
	BA0781	human,monkey,mouse,rat	WB,IHC,ICC/IF,FCM
M03529-Dy488	human	FCM	
	M03529-Dy550	human	FCM
MCL1	BM4085	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	M00712-2	human	WB,IF
P53	PB9008	human	WB,IHC,ICC/IF,FCM

产品名称	货号	应用种属	应用范围
P53(acetyl K370)	BM4309	human,mouse,rat	WB,IHC,IF,IP
P53(Phospho-S33)	BM3987	human	WB,IHC,IF
P53(Phospho-S392)	BM4095	human,mouse,rat	WB,IHC,ICC/IF,IP
PMAIP1	BM5042	human	WB
PUMA	BM4299	human,mouse,rat	WB,IHC,ICC/IF,FCM

三. 死亡受体凋亡通路

死亡受体包括Fas, TNFaR, DR3, DR4和DR5,当配体与之结合后,这些蛋白被激活并起始凋亡。通常死亡配体通过使受体多聚化启动信号传导,受体多聚化后引起相关接头蛋白的结合并激活caspase级联。FasL结合Fas后形成Fas三聚体,通过接头蛋白FADD召集caspase-8,然后caspase-8形成寡聚体通过自我剪切而活化。caspase-8通过两条平行的通路促进凋亡: 它可以直接剪切并激活caspase-3也可以切Bid,这是一个促凋亡的Bcl-2家族成员。截短的Bid(tBid,truncated Bid)转移进入线粒体,促进细胞色素C的释放,从而导致caspase-9和3的激活。TNF-a和DR-3L可以同时传递促凋亡和抑凋亡信号。TNFaR和DR3通过接头蛋白TRADD/FADD活化caspase-8促进凋亡。TNF-a与TNFaR结合后也能通过NIK/IKK激活NF-KB通路。活化的NF-KB诱导促生存因子Bcl-2和FLIP的表达, FLIP直接抑制caspase-8的激活。FasL和TNF-a还可以通过ASK1/MKK7激活JNK,活化的JNK可以磷酸化并抑制Bcl-2。当级联通路未被激活时,死亡受体的活化可以通过形成复合1b来激活另一个过程-细胞程序性死亡, 又名坏死性凋亡。

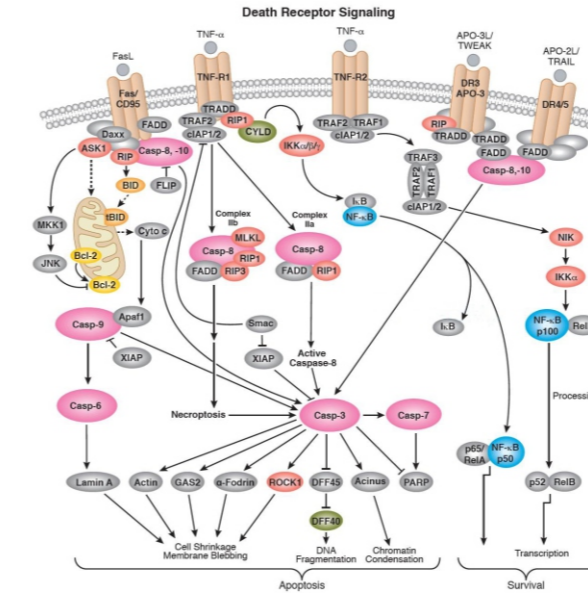


产品名称	货号	应用种属	应用范围
ASK1	A00929-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
BCL2	BA0412	human,mouse,rabbit,rat	IHC,WB
	A00040-2	human	WB,ICC/IF,FCM,ELISA
	A00040-1	human,mouse,rat	WB,IHC,FCM
	BM0200	human	WB,IHC,ICC/IF

产品名称	货号	应用种属	应用范围
BCL2	MA00040	human,mouse,rat	WB,IHC
	A00040-Dyl488	human	FCM
	A00040-Dyl550	human	FCM
BID	PB9027	human,mouse,rat	WB,IHC,ICC/IF,FCM
	M00730-1	human	WB,IHC,ICC/IF,FCM
Caspase 3	BM3954	human,mouse	WB,IHC,ICC/IF
	BM3957	human,rat	WB,IHC,ICC/IF,IP
Caspase 3(p12)	BA3592	human	WB,IHC,ICC/IF
	BM4620	human,mouse,rat	WB,IHC,ICC/IF
Caspase 3(p17)	BM3937	human	WB,IHC,ICC/IF
	PB9188	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00334-Dyl488	human	FCM
	A00334-Dyl550	human	FCM
Caspase 3(active+pro)	BM4340	human	WB,IHC,IP
Caspase 8	A00042	human,mouse,rat	WB,IHC,FCM
Caspase 8(p10)	BA3721	human	WB,IHC
Caspase 8(p18)	BA2143-2	human,mouse,rat	WB
Caspase 9	A00080-7	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	A00080-5	human	WB,IHC,ICC/IF,FCM,ELISA
	BM4619	human,mouse	WB,IHC,ICC/IF,IP
Caspase 9(p35)	PB0285	human	WB
Caspase 9(p10)	A00080-4	mouse,rat	WB,FCM,ELISA
CASP9(large)	BA3974	human	WB,IHC
CD95	BM4868	human	WB,IHC,ICC/IF,FCM
	A00055	mouse,rat	WB,FCM,ELISA
	BA0484	mouse,rat	WB,IHC
CYCS	PB9334	human,mouse,rat	WB,IHC,ICC/IF,IF
	BA0781	human,monkey,mouse,rat	WB,IHC,ICC/IF,FCM
TNFRSF25	A03227-3	mouse,rat	WB,FCM,ELISA
TNFRSF10A	A02152	human,mouse,rat	WB,ICC/IF,FCM
TNFRSF10B	BM5145	human	WB,IP,FCM
	A00410	human,mouse,rat	WB,IHC,FCM
FADD	A00237-3	mouse,rat	WB,IHC,FCM
	M00237-2	human	WB,FCM
FLIP	A01295-1	human,mouse,rat	WB,IHC,ELISA
JNK1/2/3	BM4329	human,mouse,rat,cow,dog,monkey,zebrafish	WB,ICC/IF,IP
JNK1/2(Phospho-T183+T183+T221)	BM4380	human,mouse,rat	WB,IHC,ICC/IF,IP
	A02608-1	human,mouse	WB,ICC/IF,IP,ELISA
JNK2	M02608-3	human,mouse,rat	WB
	BM4462	human,mouse,rat	WB,IHC,ICC/IF,FCM
MAP2K7	BM4706	human,mouse,rat	WB,IHC,ICC/IF
	PB0816	human,monkey	WB,IHC,ICC/IF,FCM,ELISA
	BA3329-2	human,monkey,mouse,rat	WB,FCM
NF-xB p65	A00284-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
TNF Alpha	A00002-5	mouse,rat	WB,ICC/IF,FCM,ELISA
	BA0131	human,mouse,rat	WB,IHC,FCM

四. 凋亡抑制剂和凋亡促进剂

细胞生存需要积极的抑制凋亡发生,一方面需要抑制促凋亡因子的表达,另一方面则需要表达一些抗凋亡因子。PI3K通路被许多生存因子活化,能够激活Akt, Akt是生存信号传导中一个重要的角色。PTEN抑制PI3K通路。活化的Akt抑制促凋亡Bcl-2家族成员Bad, Bax, caspase-9, GSK-3和FoxO1,许多生长因子和细胞因子诱导抗凋亡Bcl-2家族成员。激酶Jaks和Src磷酸化并激活Stat3,后者诱导Bcl-xL和Bcl-2的表达。Erk1/2和PKC激活p90RSK,后者激活CREB并诱导Bcl-xL和Bcl-2的表达。这些Bcl-2家族成员保护线粒体的完整性,阻止细胞色素C的释放以及随后的caspase-9的激活。TNF-a可以同时激活促凋亡和抑制凋亡通路: TNF-a活化caspase-8和-10诱导凋亡,同时它又通过NF-KB抑制凋亡, NF-KB诱导抗凋亡基因如Bcl-2的表达。cIAP1/2能与TRAF2结合抑制TNF-a的信号传导。FLIP抑制caspase-8的激活。

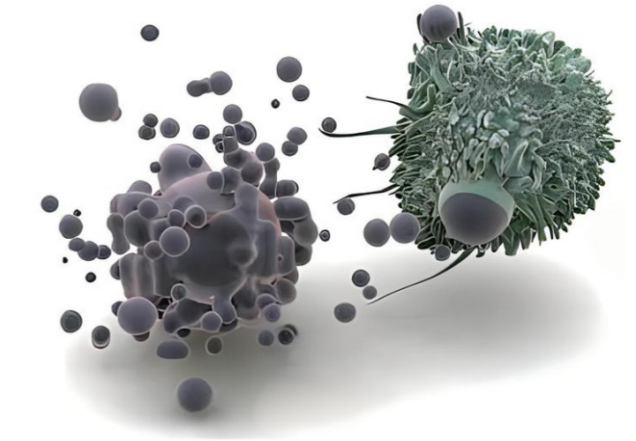


产品名称	货号	应用种属	应用范围
BAD	BM4241	human,mouse,rat	WB,IHC,ICC/IF
	A03520-2	human	WB,IHC,FCM,ELISA
BAD(Phospho-S112)	BM5507	human,mouse,rat	WB
BAK	BM4247	human	WB,IHC,ICC/IF,IP,FCM
	M01163-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
BAX	BM3964	human,mouse,rat,hamster	WB,IHC,IP,FCM
	BA0315-1	human,mouse,rabbit,rat	IHC
	BA0412	human,mouse,rabbit,rat	IHC,WB
BCL2	A00040-2	human	WB,ICC/IF,FCM,ELISA
	A00040-1	human,mouse,rat	WB,IHC,FCM
	BM0200	human	WB,IHC,ICC/IF
	MA00040	human,mouse,rat	WB,IHC
	BA0407-2	human,mouse,rat	WB,IHC,FCM
BCL2L2	BM3956	human,mouse,rat	WB,IHC,ICC/IF,IP
BCL2L1	A00181	human,mouse,rat	WB,IHC,FCM

产品名称	货号	应用种属	应用范围
BCL2L1	M00181-2	human,mouse,rat	WB,IF
	A00181-Dyl488	human	FCM
	A00181-Dyl550	human	FCM
BCL2L1	PA1232	human,mouse,rat	WB,IHC
CFLAR	A01295-1	human,mouse,rat	WB,IHC,ELISA
MCL1	BM4085	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	A00712-2	human,mouse,rat	WB,ICC/IF,FCM,ELISA
	M00712-2	human	WB,IF
TNF Alpha	A00002-5	mouse,rat	WB,ICC/IF,FCM,ELISA
	BA0131	human,mouse,rat	WB,IHC,FCM

五. 细胞程序化坏死

是指细胞坏死过程受精密信号控制,也叫坏死性凋亡,是一种有别于凋亡的程序性细胞死亡方式。程序性坏死与传统的坏死特征类似,质膜破裂,引发炎症反应。其与缺血性损伤、神经退行性疾病有关,是近年来细胞死亡研究的热点。



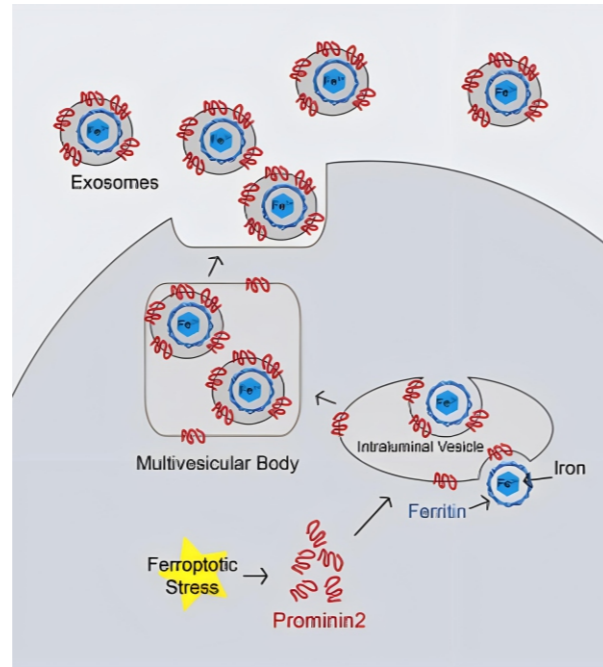
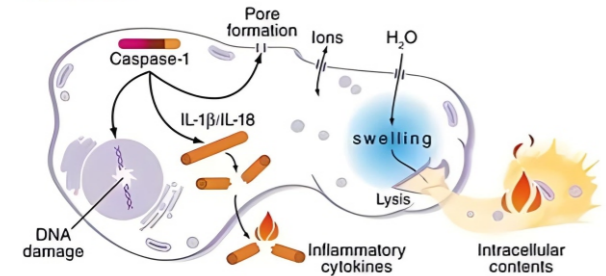
产品名称	货号	应用种属	应用范围
Caspase 8	A00042	human,mouse,rat	WB,IHC,FCM
Caspase 8(p10)	BA3721	human	WB,IHC
Caspase 8(p18)	BA2143-2	human,mouse,rat	WB
FADD	A00237-3	mouse,rat	WB,IHC,FCM
	M00237-2	human	WB,FCM
FLIP	A01295-1	human,mouse,rat	WB,IHC,ELISA
MLKL	A00535-2	human	WB,IHC,IF,ELISA
	M00535-1	human	WB,IP
MLKL(Phospho-S345)	P00535	mouse	WB,IP
MLKL(Phospho-S358)	BM5427	human	WB
RIPK3	MA00202	human	WB,IHC
RPAIN	A11439-1	human,mouse	WB,FCM,ELISA
TNFAIP3	BM4599	human	WB,IHC,ICC/IF,FCM
TICAM1	A01872-1	human	WB,FCM,ELISA

产品名称	货号	应用种属	应用范围
TICAM1	BA3857	human	WB,IHC
	BA2933-2	mouse	WB
	M01872	human,monkey	WB

六. 细胞焦亡

又称细胞炎性坏死，是一种程序性细胞死亡，表现为细胞不断胀大直至细胞膜破裂，导致细胞内内容的释放进而激活强烈的炎症反应，是机体一种重要的天然免疫反应。其参与感染性疾病、神经系统相关疾病和动脉粥样硬化性疾病等的发生发展，并发挥重要作用。

Pyroptosis

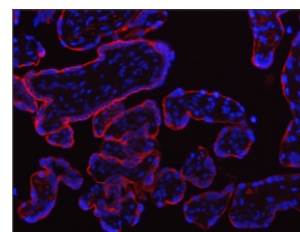


产品名称	货号	应用种属	应用范围
Caspase 1(p10)	BA0586	human	WB,IHC
Caspase 1(p10+p12)	M00048-2	human,mouse,rat	WB,IP
Caspase 1(p20)	PA1440	human	WB,IHC
	BA2220	mouse,rat	WB,IHC
Caspase 5	A05259-4	human,mouse,rat	WB,ICC/IF,FCM,IHC,ELISA
GSDMD	M02842	human	WB,IHC,ICC/IF,FCM
IKKB	BM4875	human,mouse,rat	WB,IHC,ICC/IF
	PB9221	human	WB,IHC,ICC/IF,FCM
IKK Alpha/Beta	BM4499	human,mouse,rat	WB,ICC/IF,IP
IKK Alpha	BM4572	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
IL1B	A00101	human,mouse,rat	WB
	M00101-3	mouse	WB,FCM,IP
IL18	PB9006	human	IHC,WB,ICC/IF
	PB0058	mouse,rat	WB,IHC,FCM
NF-κB p65	A00284-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
NLRP3	BA3677	human,mouse,rat	WB,IHC,FCM
TLR2	A00131	human,mouse,rat	WB
TLR4	A00017-3	mouse	WB,ELISA
	A00017-2	human	WB,FCM,ELISA
	BA1717	human	WB,IHC

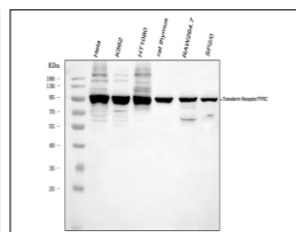
七. 细胞铁死亡

该概念最早由哥伦比亚大学的Brent Stockwell教授于2012年提出，是指一种由于细胞内代谢通路紊乱导致脂质过氧化物过度积累引起的细胞死亡方式，与细胞内的铁代谢和脂质稳态密切相关。

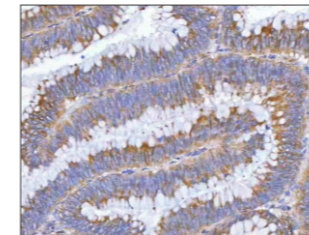
产品名称	货号	应用种属	应用范围
ACSL4	M04372-1	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
CD71	PB9233	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
FTH1	BM4487	human,mouse,rat	WB,ICC/IF
FTL	BM5227	human,mouse,rat	WB,IP,FCM
GPX1	BM4854	human,mouse,rat	WB,IP
	M01019-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
GPX2	BM5708	human	WB
GPX4	BM5231	human,mouse,rat	WB,IHC,ICC/IF
	A02059-1	human,mouse,rat,monkey	WB,ELISA
	M02059-1	human	WB,FCM
NRF2	A00078-1	human	WB,IHC,ICC/IF,FCM,ELISA
NRF2(Phospho-S40)	BM4842	human	WB,IHC,ICC/IF,IP,FCM
TFR2	MA02353	human,monkey,mouse,rat	WB,IF,FCM
VDAC1	A01168-1	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM,ELISA
VDAC3	A04802-2	human,mouse,rat	WB,IHC,FCM,ELISA
SLC7A11	BM5318	human,mouse,rat	WB,IP
	A03036-2	human,mouse	WB,IHC,ELISA



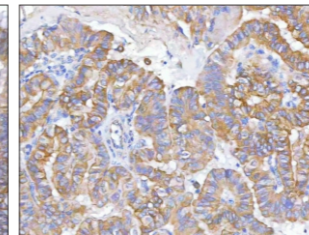
CD71 (PB9233) human placenta (石蜡片) Dylight CY3-羊抗兔 DAPI染核



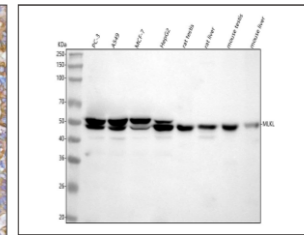
CD71 (PB9233) Rabbit polyclonal antibody Western blot



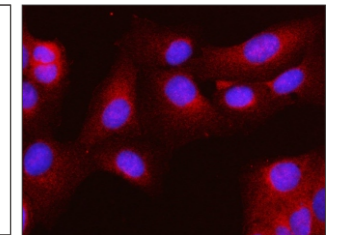
MLKL (A00535-3) human colon adenocarcinoma (石蜡片) SV法 DAB显色 20X



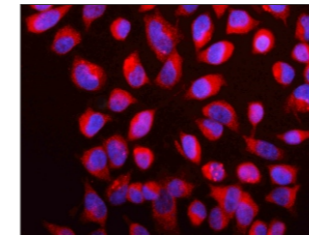
MLKL (A00535-3) human thyroid papillary carcinoma (石蜡片) SV法 DAB显色 20X



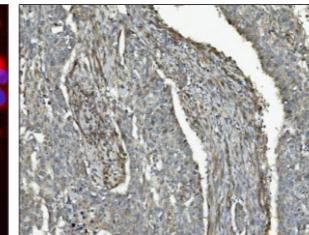
MLKL (A00535-3) Rabbit polyclonal antibody Western blot



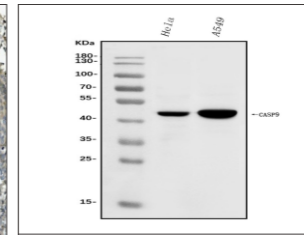
MLKL (A00535-3) U2OS Cell Dylight CY3-羊抗兔 DAPI染核



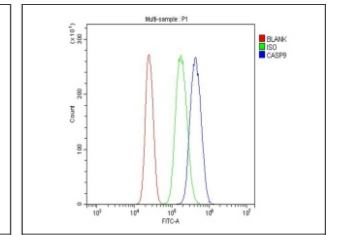
CASP9 (A00080-5) HeLa Cell Dylight594-羊抗兔 DAPI染核



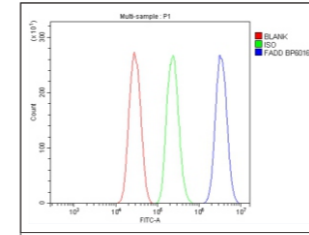
CASP9 (A00080-5) human lung cancer (石蜡片) SABC法 DAB显色



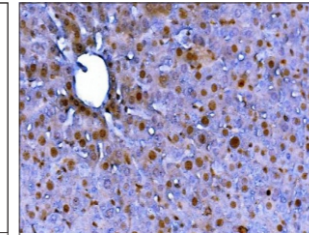
CASP9 (A00080-5) Rabbit polyclonal antibody Western blot



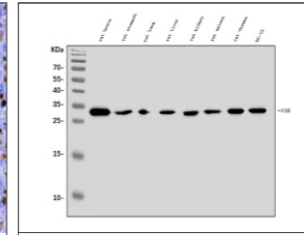
CASP9 (A00080-5) U937 Cell by Flow Cytometry



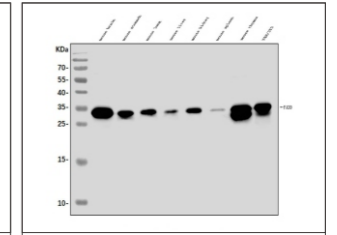
FADD (A00237-3) Hepa 1-6 Cell by Flow Cytometry



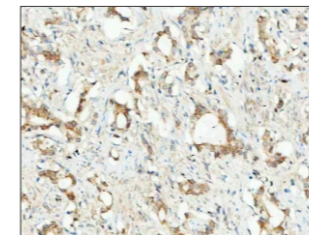
FADD (A00237-3) mouse liver (石蜡片) SV法 DAB显色



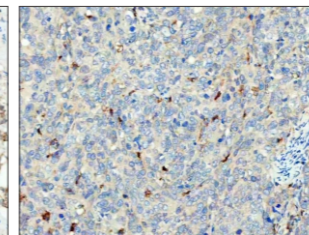
FADD (A00237-3) Rabbit polyclonal antibody Western blot



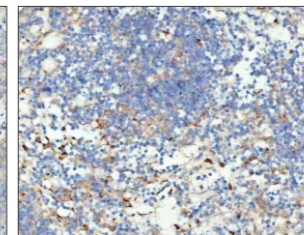
FADD (A00237-3) Rabbit polyclonal antibody Western blot



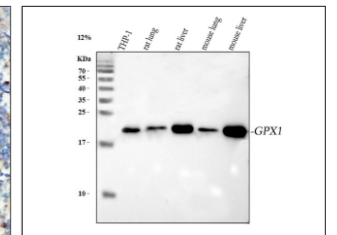
GPX1 (A01019-2) human acinar adenocarcinoma of prostate (石蜡片) SV法 DAB显色



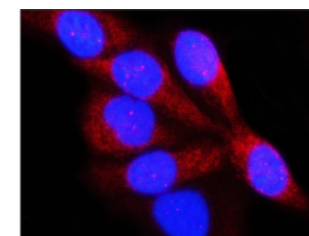
GPX1 (A01019-2) human cervical squamous carcinoma (石蜡片) SV法 DAB显色



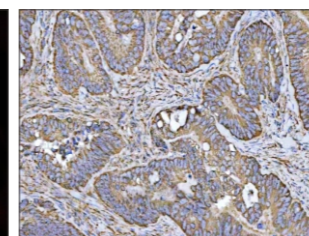
GPX1 (A01019-2) human spleen (石蜡片) SV法 DAB显色



GPX1 (A01019-2) Rabbit polyclonal antibody Western blot



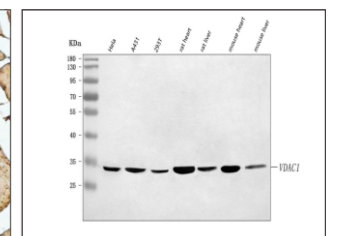
VDAC1 (A01168-1) HeLa Cell Dylight CY3-羊抗兔 DAPI染核



VDAC1 (A01168-1) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色



VDAC1 (A01168-1) mouse cardiac muscle (石蜡片) SV法 DAB显色



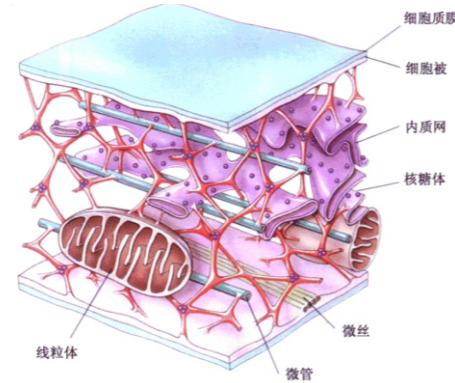
VDAC1 (A01168-1) Rabbit polyclonal antibody Western blot

产品名称	货号	应用种属	应用范围
Glucocorticoid receptor	M00503-3	human,mouse,rat	WB,IHC
HDAC2	A00325-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM3967	human,mouse,rat	WB,IHC,ICC/IF
HIF-1 alpha	BM4083	human	WB,IHC,ICC/IF
	PB9253	human,mouse,rat	WB,IHC
Histone H1.0	A08821-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM4687	human,mouse,rat	WB,IHC,ICC/IF
Histone H2A.X	BM4148	human,mouse,rat	WB,IHC,ICC/IF,IP
	A00241-1	human,mouse,rat	WB,IHC,FCM,ELISA
Histone H2A.X (Phospho-S139)	BM4841	human,mouse,rat	WB,IHC
Histone H2A.Z	BM4363	human,mouse,rat	WB,IHC,ICC/IF
Histone H3	A12477-2	human,mouse,rat	WB,IHC,IF,ICC/IF
Histone H3 (mono methyl, K18)	BM4323	human,mouse,rat	WB,IHC,ICC/IF
HMGA1	M01043	human,mouse,rat	WB,IHC,ICC/IF,FCM
Hp1 alpha	BM4341	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	A02780-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	M02780-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
KDM1A	BM4356	human,mouse,rat	WB,IHC,ICC/IF
Ki67	PB9026	human	IHC,WB,IF,ICC/IF
	M00254-8	human	IHC,IF,ICC/IF,FCM
Lamin A/C	PB9280	human,mouse,rat	WB,IHC,IF,FCM,ICC/IF
	BM4105	human	WB,IHC,ICC/IF,IP,FCM
Lamin B1	PB9611	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM3891	human,mouse,rat	WB
Lamin B2	BM5380	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	BA3686	human,mouse,rat	WB,IHC
NCL	A00228-1	human,monkey,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
NOP2	A04830-1	human	WB,ICC/IF,FCM,ELISA
NUP98	BM4325	human	WB,IHC,ICC/IF
	PB0331	human,mouse,rat	WB
PARP1	PB9309	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
	BM4222	human,mouse,rat	WB,IHC,ICC/IF,FCM
	M00122-4	human,mouse,rat	WB,IHC,ICC/IF,FCM
PCNA	A00125	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	M00125-4	human,mouse,rat	WB,IHC
PTBP1	A01798	human,mouse,rat	IHC,ICC/IF,FCM,WB,ELISA
	BM5722	human,mouse,rat	WB
SIRT1	A00018-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
SIRT1(Phospho-S47)	BM4507	human	WB,IHC,ICC/IF
Yy1	PB9909	human,mouse,rat	WB,FCM,ICC/IF
	BM4049	human,mouse,rat	WB,IHC,ICC/IF,IP

三. 细胞骨架标记物

狭义的细胞骨架(cytoskeleton)概念是指真核细胞中的蛋白纤维网架体系(微管(microtubule, MT)、微丝(microfilament, MF)及中间纤维(intermediate filament, IF)组成的体系)。它所组成的结构体系称为“细胞骨架系统”，与细胞内的遗传系统、生物膜系统、并称“细胞内的三大系统”。直到20世纪60年代后，采用戊二醛常温固定，才逐渐认识到细胞骨架的客观存在。是真核细胞借以维持其基本形态的

重要结构，被形象地称为细胞骨架，它通常也被认为是广义上细胞器的一种。广义的细胞骨架概念是细胞核骨架、细胞质骨架、细胞膜骨架和胞外基质所形成的网络体系。核骨架、核纤层与中间纤维在结构上相互连接，贯穿于细胞核和细胞质的网架体系。

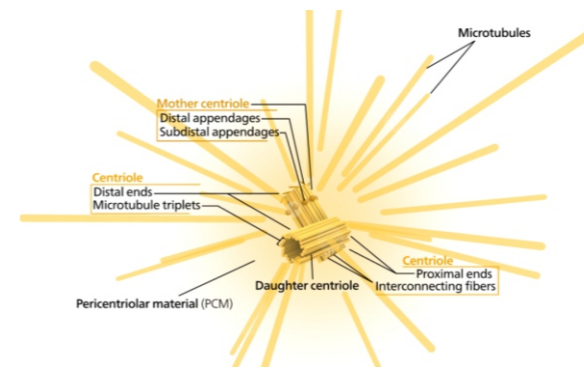


产品名称	货号	应用种属	应用范围
Actin	BA0410	human,mouse,rat	WB,IHC
	M02014-5	human,mouse,rat	WB,IHC
Alpha Tubulin	BM1452	human,mouse,rat,chicken	WB,IHC
	BM3873	human,mouse,rat,monkey,zebrafish	WB
Beta Actin	BM0627	human,mouse,rat,pig,monkey,rabbit,chicken	WB,IHC
	A01263-HRP	human,mouse,rat,monkey,zebrafish,chicken	WB
Beta Tubulin	M05613-5	human,mouse,rat,chicken,hamster	WB,IHC,ICC/IF
Beta Tubulin	A05397-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
Cytokeratin 10	BM4422	human,mouse,rat	WB,IHC,ICC/IF
Cytokeratin 14	BM4522	human,mouse,rat	WB,IHC,ICC/IF
	A01432	human,mouse,rat	WB,IHC,FCM
Cytokeratin 17	A01432-3	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM,ELISA
	A02289-1	human,mouse	WB,IHC,ICC/IF,IP,FCM,ELISA
Cytokeratin 19	BM4188	human,mouse	WB,IHC,ICC/IF,FCM
	PB9715	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
	BA2266	human,mouse,rat	WB,IHC
	BA4154	human	WB,IHC,ICC/IF
	M02101-7	human	WB,IHC,ICC/IF,IP,FCM
	M02101-2	human	WB,IHC,IF
	M02101-6	human,rat,monkey	WB,IHC,ICC/IF
	M02101-1	human,rat	WB,IHC,ICC/IF
Cytokeratin 20	BM4207	human,rat	WB,IHC,ICC/IF
	A02828-2	human,mouse,rat	WB,IHC,FCM,ICC/IF,ELISA
Cytokeratin 5	M02828-2	human	WB,IHC
	BM4027	human,mouse	WB,IHC,ICC/IF
	A00398	human	WB,IHC
	BM4491	human	WB,IHC,ICC/IF
	M00398-6	human	WB,IHC,IF,ICC/IF,FCM
	M00398-7	human	WB,IHC,ICC/IF,FCM
	M00398-8	human,mouse,rat	WB,IHC
	M00398-8	human,mouse,rat	WB,IHC
Cytokeratin 7	A02416-2	human	WB,IHC
	BM4622	human,mouse,rat	WB,IHC,ICC/IF

产品名称	货号	应用种属	应用范围
Cytokeratin 8	A01421	human,mouse,rat	WB,IHC
	BA3152	human,mouse,rat	WB,IHC
	BM4255	human,mouse	WB,IHC,ICC/IF,IP,FCM
	M01421-3	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM
	M01421-5	human,monkey,mouse,rat,dog	WB,IF
Desmin	PB9105	human,mouse,rat	WB,IHC,IF
	BM4101	human,mouse,rat	WB,IHC,ICC/IF
Vimentin	PB9359	human,mouse,rat	WB,IHC,IF
	BM4029	human,mouse,rat	WB,IHC,ICC/IF

四. 中心体标记物

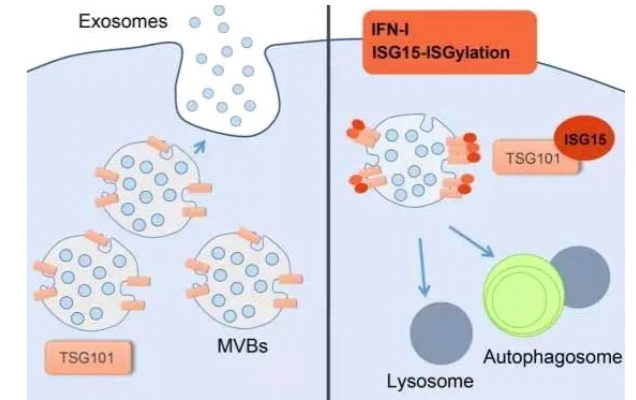
中心体是动物细胞中一种重要的细胞器，每个中心体主要含有两个中心粒。它是细胞分裂时内部活动的中心。动物细胞和某些低等植物细胞中有中心体。它总是位于细胞核附近的细胞质中，接近于细胞的中心，因此叫中心体。在电子显微镜下可以看到，每个中心体含有两个中心粒，这两个中心粒相互垂直排列。中心体与细胞的有丝分裂有关。



产品名称	货号	应用种属	应用范围
Alpha Tubulin	M03989-4	human,monkey,mouse,rat,dog	WB,IHC
Aurora A	A00246-3	human	WB,IHC,ICC/IF,FCM,ELISA
	BA3798-2	mouse,rat	WB
	BM4361	human,mouse	WB,ICC/IF,FCM
Beta Catenin	A00004	human,mouse,rat	WB,IHC,ICC/IF,IF,FCM,ELISA
	M00004-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
Beta Tubulin	M05613-5	human,mouse,rat,chicken,hamster	WB,IHC,ICC/IF
Beta Tubulin	A05397-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
CCP110	A05058-1	human,mouse,rat	WB,IHC,ELISA
CENPJ	A04095-1	human,mouse,rat	WB,ICC/IF,ELISA
Centrin-1	A11408-1	human	WB,IF,ELISA
Gamma Tubulin	BM4273	human,mouse,rat,monkey,chicken,fish,hamster	WB
HSP60	PB9337	human,mouse,rat	WB,IHC,ICC/IF
	BM1511	human,mouse,rat,chicken	WB,IHC
Ninein	A03001-1	human,mouse,rat	WB,FCM,ELISA
PLK1	PB9500	human	WB
	MA00182	human,mouse,rat	WB,IHC,FCM

五. 核内体标记物

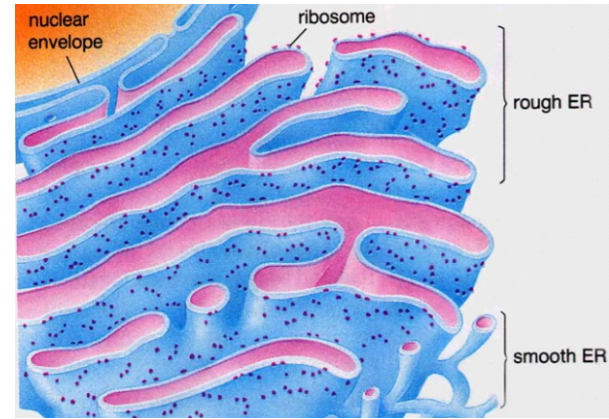
核内体 (Endosome, 又称内体) 在细胞生物学中指的是一种真核细胞中的膜结合细胞器，属于一种囊泡结构。作为细胞内吞作用中运载途径的一个区室，核内体从细胞质膜被传递到溶酶体被其降解，或者再循环回到细胞质膜。一个成熟的内体直径大约500纳米。



产品名称	货号	应用种属	应用范围
AP2S1	M07176-1	human,mouse,rat	WB,IHC,IP
Caveolin-1	PA1514	human,mouse,rat	WB,IHC,IF,FCM
	M00179-1	human	WB,IHC,IF
Caveolin-2	A01574	human,monkey,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA
	BM3916	human	WB,IHC,ICC/IF,IP
Caveolin-3	A00990-2	human,mouse,rat	WB,IHC,IF,ELISA
	BM3917	human,mouse,rat	WB,IP
CD63	BM4133	human	WB,IHC
	A01080-1	mouse,rat	IHC
CLTC	A03134-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM5130	human,mouse,rat	WB,IHC
EEA1	BM4402	human,mouse,rat	WB,ICC/IF
	A02296-3	human,mouse,rat	WB,ICC/IF,FCM
RAB11A	PB0836	human,mouse,rat	WB,ICC/IF,FCM
	M01436-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
RAB4A	A04643-2	human,mouse,rat	WB,IHC,ELISA
	BM3989	human,mouse,rat	WB,ICC/IF,IP
RAB5A	M01891-1	human,mouse,rat	WB,ICC/IF,FCM
RAB5A/B/C	A01891	human,mouse,rat	WB,IHC,ICC/IF,ELISA
RAB7A	BM4651	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A02409-1	human,mouse,rat	WB,IHC,FCM,ELISA
RAB9A	A05768	human,mouse,rat	WB,ICC/IF,FCM,ELISA
	BM4352	human,mouse,rat	WB,ICC/IF

六. 内质网标记物

内质网是细胞内除核酸以外的一系列重要的生物大分子，如蛋白质、脂类(如甘油三酯)和糖类合成的基地。滑面内质网还具有解毒功能，如肝细胞中的滑面内质网中含有一些酶，用以清除脂溶性的废物和代谢产生的有害物质。

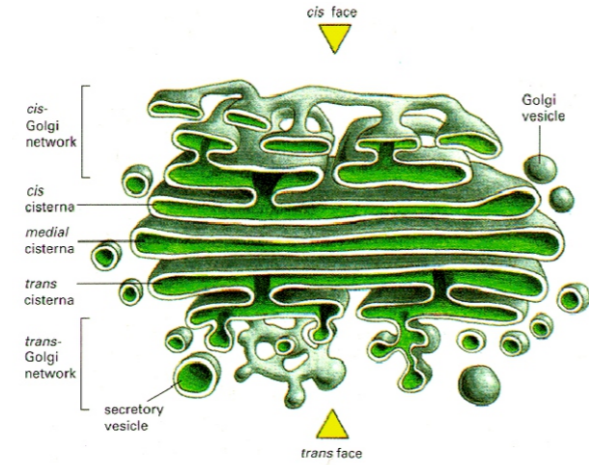


产品名称	货号	应用种属	应用范围
ATF6	A00655-3	human,mouse,rat	WB,ICC/IF,FCM,ELISA
Calnexin	A03372-2	human,mouse	WB,IHC,ICC/IF,FCM,ELISA
	M03372-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
Calreticulin	BM4228	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	A00894-2	human,mouse,rat	WB,IHC,FCM,ELISA
	A00894-1	human,mouse,rat	WB,IHC,FCM,ELISA
CYP2E1	A00672	human,mouse,rat	WB,IHC,FCM,ELISA
	BM5022	human,mouse,rat	WB
PDIA3	BA2187	human,mouse,rat	WB,IHC
	M01464-5	human,mouse,rat	WB
PDIA4	A07267-1	human,mouse,rat	WB,FCM,ELISA
	M07267	human,mouse,rat,monkey	WB,IHC
HSPA5	PB0669	human,mouse,rat	WB,IHC
	A00955	human,mouse,rat	WB,ELISA
GRP94	BM5067	human,mouse	WB,IHC,ICC/IF
	PB0670	human,mouse,rat	WB,IHC,ICC/IF,FCM
ERBB2	A00010-4	human,mouse	WB,IHC,ELISA
	MA00010	human,mouse,rat	WB,IHC,IF,FCM
HMOX2	BA0606	human,mouse,rabbit,rat	WB,IHC
HO-1	BM4010	human,mouse	WB,IHC,IP,FCM
	PB0050	mouse,rat	WB,IHC
	BA0605-1	human,mouse,rat	IHC
HSP70	PB9638	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM0368	human,mouse,rat	WB,IHC
KDEL	BM4043	human,mouse,rat	WB,IHC,ICC/IF,FCM
PDI	A02335-1	human,monkey,mouse,rat	WB,IHC,FCM,ICC/IF,ELISA
	M02335-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
RRBP1	A07074-2	human	WB,IHC,ICC/IF,FCM,ELISA
TAP1	A01123-2	mouse,rat	WB,ICC/IF,FCM,ELISA
	PB9823	human	WB,IHC
UGCG1	A10212-2	human	WB,ELISA
VEGFR2	BM4256	human	WB
	A00901-3	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA

七. 高尔基体标记物

高尔基体是由单位膜构成的扁平囊叠加在一起所组成。扁平囊为圆形，边缘膨大且具穿孔。一个细胞内的全部高尔基体，总称为高尔基器。一个高尔基体常具5—8个囊，囊内有液状内含物。

高尔基体 (Golgi apparatus, Golgi complex) 亦称高尔基复合体、高尔基器。是真核细胞中内膜系统的组成之一。为意大利细胞学家卡米洛·高尔基于1898年首次用硝酸银染色的方法在神经细胞中发现。是由光面膜组成的囊泡系统，它由扁平膜囊 (saccules)、大囊泡 (vacuoles)、小囊泡 (vesicles) 三个基本成分组成。



产品名称	货号	应用种属	应用范围
EBAG9	PB0584	human,mouse,rat	WB,IHC
Giantin	A08226-1	human	WB,IHC,ICC/IF,FCM,ELISA
GOLGA2	BM4035	human,rat	WB,IHC,ICC/IF,IP
	A05865-1	human	WB,IHC,ICC/IF,FCM,ELISA
	M05865-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
GOLGA1	A13524-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	M13524-1	human	WB,ICC/IF,FCM
	GORASP2	A07850-2	human,mouse,rat
GOLPH2	A02975-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	A02975-2	mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM4417	human,mouse,rat	WB,IHC,ICC/IF
GPP130	M10120-1	human	WB,IHC
HSP90B1	BM5067	human,mouse	WB,IHC,ICC/IF
	PB0670	human,mouse,rat	WB,IHC,ICC/IF,FCM
Hexokinase 1	A01504-1	human,mouse,rat	WB,IHC,ICC/IF,ELISA
	M01504-2	human,mouse,rat	WB,IHC,ICC/IF,IF,FCM
p115	A05911-2	human,mouse,rat	WB,IHC,ICC/IF,IP,ELISA
	M05911	human,mouse,rat	WB,IHC,ICC/IF
Syntaxin 16	M06602	human,mouse,rat	WB,IHC,ICC/IF
Syntaxin 6	A06586-1	human,mouse,rat	WB,ICC/IF,FCM,ELISA
TGOLN2	BM4955	human	WB,IHC,IP
	A06591-2	human,mouse	WB,ICC/IF,ELISA

八. 线粒体标记物

线粒体(mitochondrion) 是一种存在于大多数细胞中的由两层膜包被的细胞器，是细胞中制造能量的结构，是细胞进行有氧呼吸的主要场所，被称为“power house”。其直径在0.5到1.0微米左右。

除了溶组织内阿米巴、篮氏贾第鞭毛虫以及几种微孢子虫外，大多数真核细胞或多或少都拥有线粒体，但它们各自拥有的线粒体在大小、数量及外观等方面都有所不同。

线粒体拥有自身的遗传物质和遗传体系，但其基因组大小有限，是一种半自主细胞器。除了为细胞供能外，线粒体还参与诸如细胞分化、细胞信息传递和细胞凋亡等过程，并拥有调控细胞生长和细胞周期的能力。

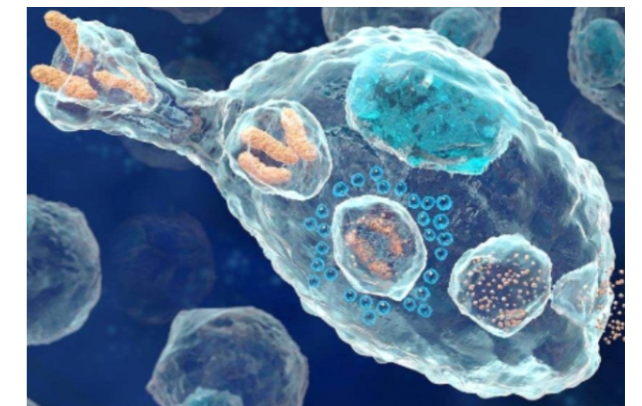


产品名称	货号	应用种属	应用范围
Aconitase 2	PB1026	human,mouse,rat	WB
	M03096	human,mouse,rat	IHC,ICC/IF,WB
AIF/AIFM1	BM3930	human,mouse,rat	WB,IHC,ICC/IF
	PB9366	human,mouse,rat	WB,IHC,ICC/IF,FCM
ALAS1	A10405-1	human,mouse,rat	WB,FCM,IHC,ICC/IF,ELISA
	M10405-1	human,mouse,rat	WB
ALDH2	PB0494	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM5651	human,rat	WB
	BA3673-2	human,rat	WB,IHC
	M00546-2	human,mouse,rat	WB,ICC/IF,FCM
	M00546-1	human,mouse,rat	WB,FCM,ICC/IF
ATP5G1/2/3	A09735	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA
ATP5G1	M32382	human,mouse,rat	WB,IHC
ATPB	BM5027	human,mouse,rat	WB,IHC,ICC/IF,IP
	A32270-3	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA
COX411	A05442-1	human,mouse,rat	WB,IHC,FCM,ICC/IF
	M05442-3	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
CPS1	A01320-2	human,mouse,rat,monkey	WB,IHC,ICC/IF,FCM,ELISA
	BM5699	human,mouse,rat	WB
Cytochrome c	PB9334	human,mouse,rat	WB,IHC,ICC/IF,IF
	BM4571	human,mouse,rat	WB,IHC,ICC/IF
Glucocorticoid receptor	PB9342	human,mouse,rat	WB,IHC
	BM4880	human,mouse,rat	WB,FCM
Hexokinase 1	A01504-1	human,mouse,rat	WB,IHC,ICC/IF,ELISA
	BM4369	human,mouse,rat	WB,IHC,ICC/IF,FCM
HIF-1 alpha	BM4083	human	WB,IHC,ICC/IF

产品名称	货号	应用种属	应用范围
HIF-1 alpha	PB9253	human,mouse,rat	WB,IHC
HSP60	PB9337	human,mouse,rat	WB,IHC,ICC/IF
	M01280-3	human,mouse,rat	WB,IHC,ICC/IF,FCM
HSP70	PB9638	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM0368	human,mouse,rat	WB,IHC
LRPPRC	A03264	human,monkey,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
Mitofilin	A04102-2	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
MT-CO1	BA2149	human,mouse,rat	WB,IHC,ICC/IF
Prohibitin	A01178-1	human,mouse,rat	WB,IHC,FCM,ELISA
	BM4358	human,mouse,rat	WB,IHC,ICC/IF
SMCR7L	A31546	human,mouse,rat	WB,ICC/IF,IP,ELISA
SOD1	BM4934	human,rat	WB,IHC,ICC/IF,FCM
	PB0453	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BA1401	human,mouse,rat	WB,IHC,ICC/IF
TFAM	PB0413	human,mouse,rat	WB,IHC,ICC/IF
	M01119-1	human	WB,IHC,FCM
TOM20	A04039-2	human	WB,IHC,ICC/IF,FCM,ELISA
UCP1/3	BM4366	human,mouse,rat	WB,IHC,ICC/IF,FCM
	M00255	mouse,rat	WB,IP
UCP2	BA1456-1	human,mouse,rabbit,rat	IHC
	A02256-1	human,mouse,rat	WB
UCP3	BA1722	human,mouse,rat	WB,IHC
VDAC1	BM4279	human,mouse,rat	WB
	A01168-1	human,mouse,rat	WB,IHC,ICC/IF,IF,FCM,ELISA
	BA3754	human,mouse,rat	WB,IHC,ICC/IF,FCM
VDAC1/2	A01168-2	human,mouse,rat	WB,IHC,IF,IP,ELISA

九. 溶酶体标记物

溶酶体是细胞代谢所必需的膜结合细胞器。它们含有水解酶，可以消化几乎所有类型的生物分子，包括未使用的蛋白质、受损的细胞器和细胞内外细胞质中其他不需要的物质。

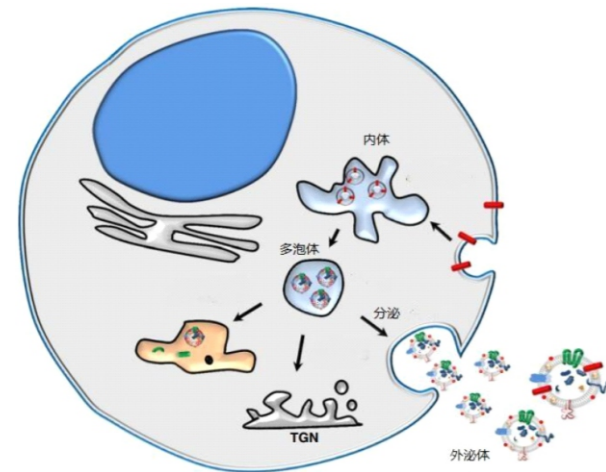


产品名称	货号	应用种属	应用范围
ATG12	A00820-2	human	WB,FCM,ELISA
	BM5176	human	WB,IHC,ICC/IF,IP,FCM
ATG5	BM4603	human,mouse,rat	WB,IHC,ICC/IF,IP

产品名称	货号	应用种属	应用范围
ATG5	BA3525-2	human,mouse,rat	WB
Beta Galactosidase	A01829-3	mouse,rat	WB,IHC,FCM,ICC/IF,ELISA
	A01829-2	human	WB,IHC,ICC/IF,FCM,ELISA
LAMP1	BM4866	human	WB,IHC
	BA2787-2	human,mouse	WB
LAMP2	BM4357	human,mouse,rat	WB,IHC,IP
LC3A	A01543-1	human,mouse,rat	WB,IHC,ELISA
	BM4367	human,mouse,rat	WB,IHC,ICC/IF
M6PR	M01405-1	human,mouse,rat	WB,ICC/IF,FCM

十. 外泌体标记物

外泌体是由脂质双分子层组成的小泡。外泌体是在某些称为多泡体的内体与质膜融合并将其释放到细胞外环境时形成的。它们也可以直接从质膜中释放出来。

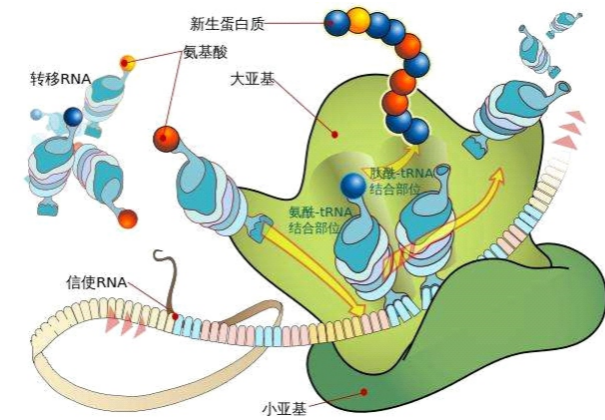


产品名称	货号	应用种属	应用范围
Alix	PB0799	human,mouse,rat	WB,IHC,ICC/IF
	M01751-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
AnnexinV	PB9044	human,mouse,rat	WB,IHC,ICC/IF,IF,FCM
	BM4989	human,mouse,rat	WB,ICC/IF,FCM
Calnexin	A03372-2	human,mouse	WB,IHC,ICC/IF,FCM,ELISA
	M03372-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
CD63	PB9250	human	WB,IHC
	BM4133	human	WB,IHC
	A01080-1	mouse,rat	IHC
CD81	A01281-2	human,mouse,rat	IHC,FCM,WB,ELISA
	A01281-3	mouse,rat	WB,IHC,IF,ELISA
CD82	A02300-1	mouse,rat	IHC,FCM,ELISA
	PB9170	human	WB,IHC
CD9	BM5347	human,rat	WB,IHC,FCM
	A01202-2	human	WB,IHC,IF,FCM,ELISA
CD9	BM4212	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	PB0977	mouse,rat	WB,IHC,ICC/IF,FCM
EXOSC8	A09191-1	human	WB,IHC,ICC/IF,FCM,ELISA

产品名称	货号	应用种属	应用范围
HSC70	PB0678	human,mouse,rat	WB,IHC,ICC/IF,FCM
	M01024-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
HSP70	PB9638	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM0368	human,mouse,rat	WB,IHC
TSG101	BM4821	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A01233-2	human,mouse,rat	WB,FCM,ELISA

十一. 核糖体标记物

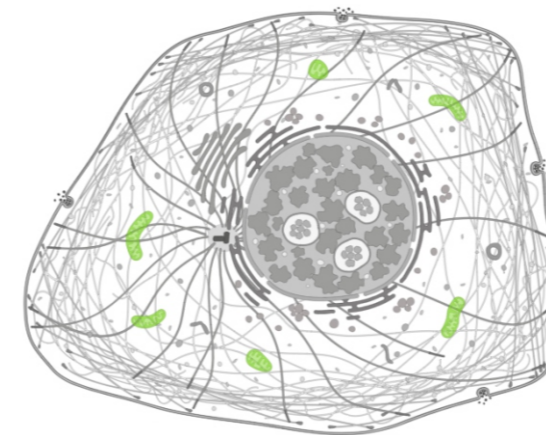
核糖体是由rRNA和蛋白质复合物构成的非膜性细胞器，是蛋白质合成的主要场所。核糖体由两个亚基组成：较小的40S亚基与mRNA结合并读取mRNA，较小的60S亚基与tRNA和氨基酸结合。当核糖体读完一个mRNA分子后，两个亚基就分离了。



产品名称	货号	应用种属	应用范围
Ribosomal protein L4	A05175-1	human,mouse,rat	WB,IHC,IF,IP,ELISA
RPL10	A04190-3	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
RPL11	A02901-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
RPL13A	A03571-1	human	WB,IHC,ELISA
	M03571	human	WB,ICC/IF,FCM
RPL17	A06980-2	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
RPL19	PB1147	human,mouse,rat	WB,ICC/IF,FCM
RPL29	A05949-1	human,monkey,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
RPS2	A03548-3	human	WB,ICC/IF,FCM,ELISA
RPS3	A01542-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM4362	human,mouse,rat	WB,IHC,ICC/IF
RPS5	A04460-2	human,mouse,rat	WB,IHC,ICC/IF,IF,FCM,ELISA
RPS6	A01567-1	human,mouse,rat	WB,IHC
	M01567	human,mouse,rat	WB,IHC,ICC/IF,FCM

十二. 过氧化物酶体标记物

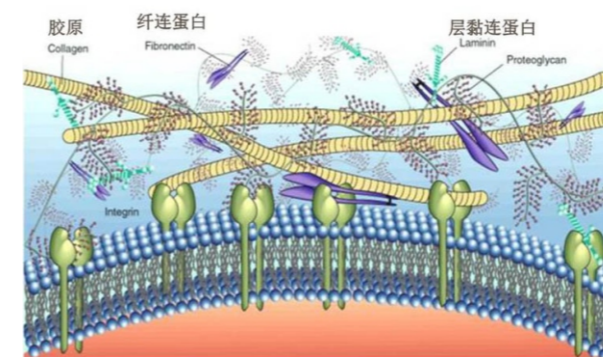
过氧化物酶体 (peroxisome) 又称微体 (microbody)，普遍存在于真核生物的各类细胞中，但在肝细胞和肾细胞中数量特别多。其含有约40余种氧化酶和触酶，主要功能是催化脂肪酸的β-氧化，将极长链脂肪酸分解为短链脂肪酸。



产品名称	货号	应用种属	应用范围
ABCD3	BA3339	human,mouse,rat	WB,IHC
	BM5666	human,mouse,rat	WB
ACOX1	A03054-1	human,mouse,rat	WB,IHC,ELISA
Catalase	PB0971	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM5051	human,mouse,rat	WB,IHC
MMP9	BM4089	human,rat	WB,IHC,ICC/IF,FCM
	PB9669	mouse,rat	WB,IHC
PEX1	A03025-1	human,mouse,rat	WB,IHC,ICC/IF
PEX14	A03327-3	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM,ELISA
PEX5	M02406-1	human,mouse,rat	WB,IF

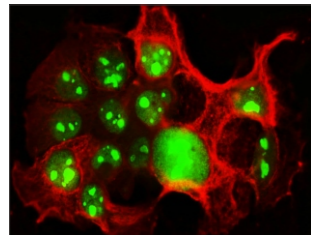
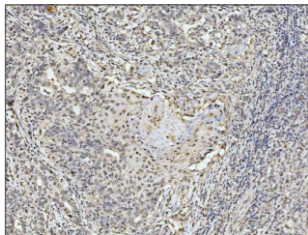
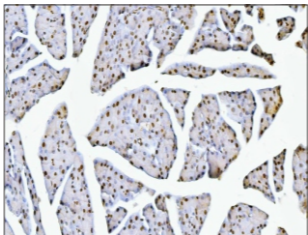
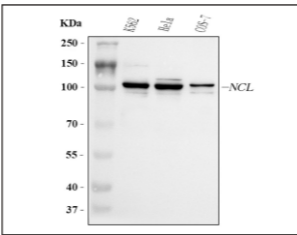
十三. 细胞外基质标记物

细胞外基质是指细胞外的一种胶状物质，包围在细胞周围，并与细胞直接接触。它起到细胞支撑、细胞间通信和细胞附着等重要作用。其主要成分为纤维蛋白和胶原蛋白。



产品名称	货号	应用种属	应用范围
COL10A1	BM4893	human,mouse,rat	WB
	BA2023	human,mouse,rabbit,rat	WB,IHC
COL17A1	A03031-1	human	WB
	BM4360	human,mouse,rat	WB,IHC,ICC/IF
COL4A1	PB9099	human	WB,IHC,IF
	BA2174	human	IHC

产品名称	货号	应用种属	应用范围	
COL4A1	M01411	human	WB,IHC,IF	
	BM0025	human	IHC	
COL4A2	A02453-1	human	IHC,ELISA	
	BA3626	human,mouse,rat	WB,IHC,ICC/IF	
COL4A3	A01755-3	human	IHC,ELISA	
COL5A2	M03869	human,mouse,rat	WB	
COL1A1	PB0981	mouse,rat	WB,IHC	
	PB0980	human,mouse,rat	WB,IHC,IF	
	BA0325	human,mouse,rat	WB,IHC,IF,ICC/IF	
COL2A1	BM4017	human,cow	WB,IHC	
	A00517-1	human,mouse,rat	WB	
COL3A1	BA0533	human,mouse,rat	IHC,WB	
	PB0125	human	WB	
	M00788	human,mouse,rat	WB,IHC	
	M00788-1	human	WB,ICC/IF,IP,FCM	
COL6A1	A00788-3	human,mouse,rat	WB,IHC,FCM,ELISA	
	BM1625	human,rat	WB,IHC-F	
COL6A2	A02226-5	human	WB,IHC,ELISA	
	BM4748	human,mouse,rat	WB,IHC,ICC/IF	
COL7A1	A03194-3	zebrafish	WB,IHC,ELISA	
	A03194-2	human	WB,IHC,ELISA	
COL11A1	A01170-1	human	WB,FCM,IHC,ELISA	
Elastin	M02909	human	WB	
Fibronectin/FN1	BM0823	bovine,human	IHC	
	COL18A1	A01302-1	human	WB,ELISA
	Fibronectin/FN1	BA1772	human,mouse,rat,monkey	WB,IHC,IF
		BA1771	human	WB,IHC,FCM,ELISA
		BM4460	human	WB,IHC,ICC/IF
M00564-3		human,mouse,rat	WB,ICC/IF,FCM	
LAMC1/LAMC2/LAMC3	MA1116	chicken,human,mouse	WB,IHC,ICC/IF	
	M00564-4	human,mouse,rat	WB,IHC	
	A03522	human,mouse,rat	WB,IHC,IF	
Laminin	BA1761-1	mouse,rat	IHC	
	PB9142	human	WB,IHC	
	BA1762-1	human	IHC	
Laminin 5	A03522-1	human	WB,IHC	
	BM1225	human,feline,pig	IHC	
Laminin Alpha 4	MA03310	human	WB,IHC	
Laminin beta 1	M04999	human,mouse,rat	WB,IHC	
Laminin gamma 1	BM4921	human,mouse,rat	WB,FCM	
	A03522-2	human,mouse,rat	WB,ELISA	
Laminin gamma 2	PA1581	human,mouse,rat	WB,IHC	
	A03214	human	WB,ELISA	
PRG2	BA3806	human,mouse,rat	WB,IHC	

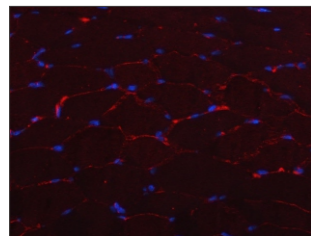
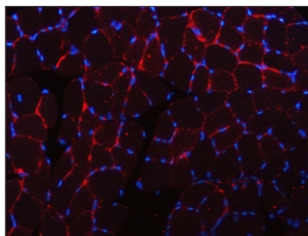
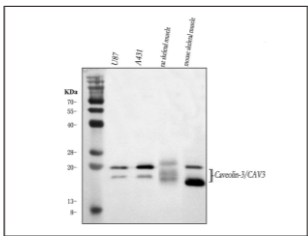
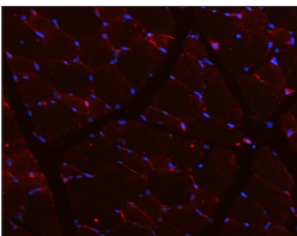





NCL (A00228-1) A431Cell Dylight 488-羊抗兔 Tubulin beta(red) DAPI染核

NCL (A00228-1) human metaplasia of squamous cells of the renal pelvis (石蜡片) SABC法 DAB显色

NCL (A00228-1) mouse pancreas (石蜡片) SABC法 DAB显色

NCL (A00228-1) Rabbit polyclonal antibody Western blot

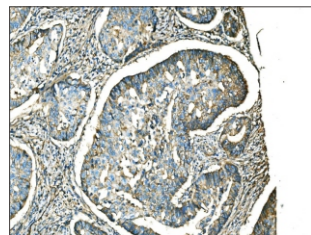
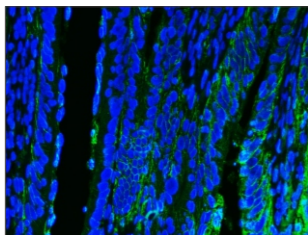
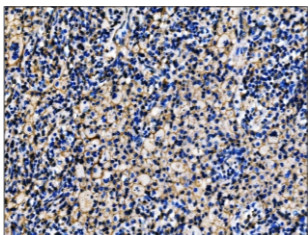
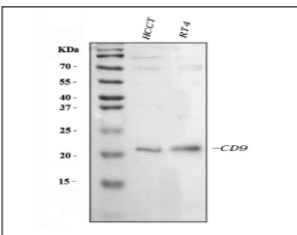





CAV3 (A00990-2) human skeletal muscle (石蜡片) Dylight Cy3-羊抗兔 DAPI染核

CAV3 (A00990-2) mouse skeletal muscle (石蜡片) Dylight Cy3-羊抗兔 DAPI染核

CAV3 (A00990-2) Rabbit polyclonal antibody Western blot

CAV3 (A00990-2) rat skeletal muscle (石蜡片) Dylight Cy3-羊抗兔 DAPI染核

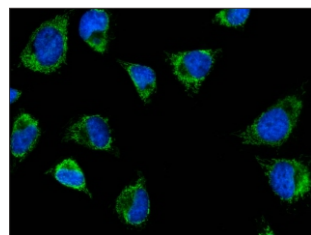
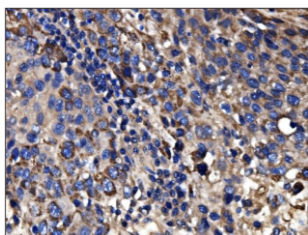
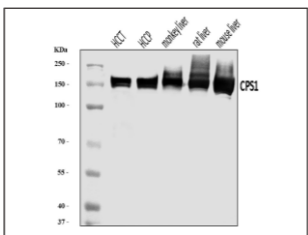
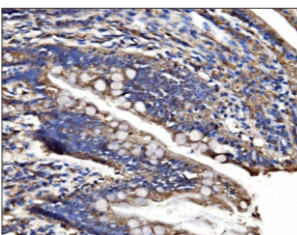





CD9 (A01202-2) human adenocarcinoma of the right colon (石蜡片) SV法 DAB显色

CD9 (A01202-2) human colon cancer (石蜡片) Dylight488-羊抗兔 DAPI染核

CD9 (A01202-2) human lung cancer (石蜡片) SV法 DAB显色

CD9 (A01202-2) Rabbit polyclonal antibody Western blot

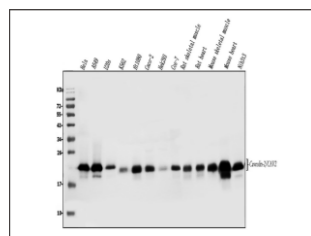
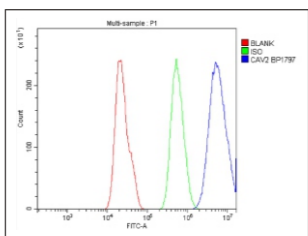
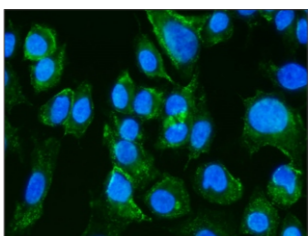
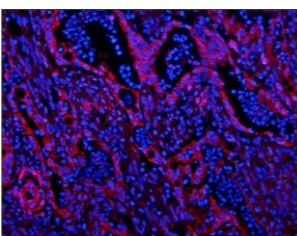





CPS1 (A01320-2) HeLa Cell Dylight 488-羊抗兔 DAPI染核

CPS1 (A01320-2) human liver (石蜡片) SABC法 DAB显色

CPS1 (A01320-2) Rabbit polyclonal antibody Western blot

CPS1 (A01320-2) rat colon (石蜡片) SABC法 DAB显色

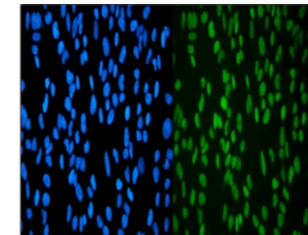
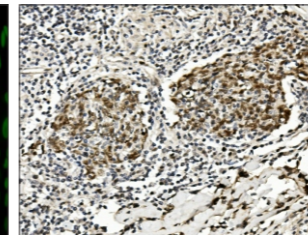
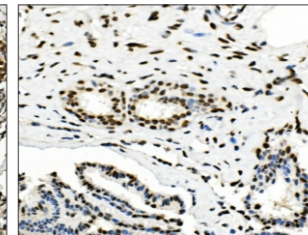
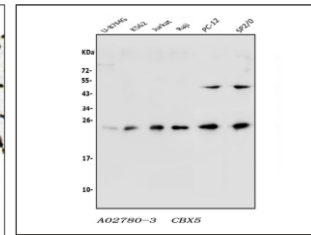





CAV2 (A01574) Rabbit polyclonal antibody Western blot

CAV2 (A01574) A549 Cell by Flow Cytometry

CAV2 (A01574) A549 Cell Dylight 488-羊抗兔 DAPI染核

CAV2 (A01574) human colon cancer (石蜡片) Dylight 594-羊抗兔 DAPI染核

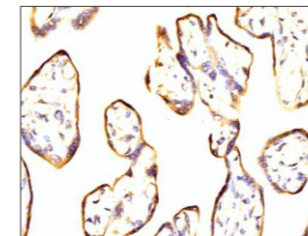
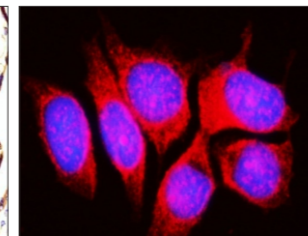
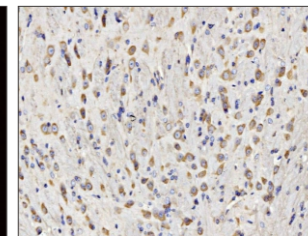
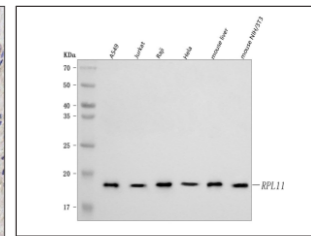





CBX5 (A02780-3) HeLa cell Dylight 488-羊抗兔 DAPI染核

CBX5 (A02780-3) human lung cancer (石蜡片) SABC法 DAB显色

CBX5 (A02780-3) human mammary cancer(石蜡片) SABC法 DAB显色

CBX5 (A02780-3) Rabbit polyclonal antibody Western blot

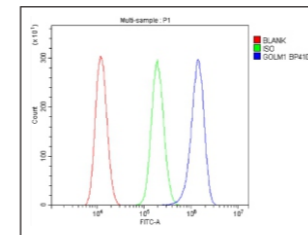
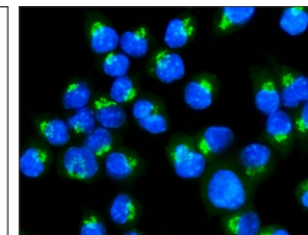
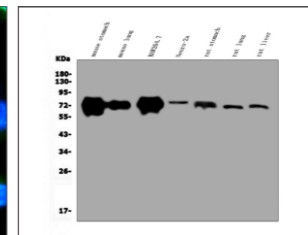
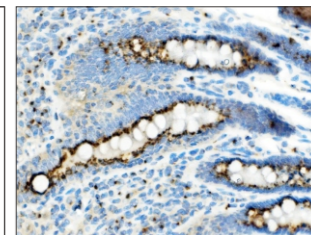





RPL11 (A02901-1) human placenta (石蜡片) SV法 DAB显色

RPL11 (A02901-1) MCF-7 Cell Dylight 594-羊抗兔 DAPI染核

RPL11 (A02901-1) mouse brain (石蜡片) SV法 DAB显色

RPL11 (A02901-1) Rabbit polyclonal antibody Western blot

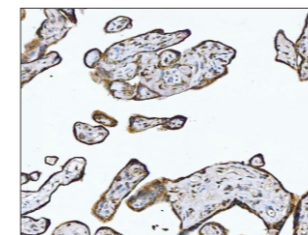
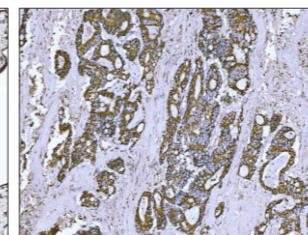
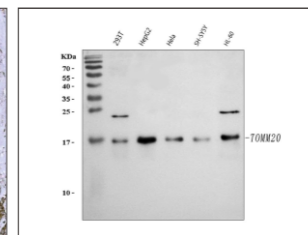
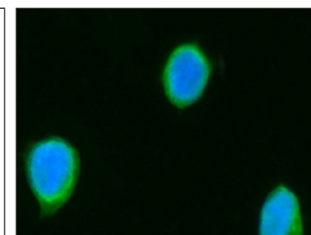





GOLM1(A02975-2) Hepa 1-6 Cell by Flow Cytometry

GOLM1(A02975-2) HEPA1-6 Cell Dylight 488-羊抗兔 DAPI染核

GOLM1(A02975-2) Rabbit polyclonal antibody Western blot

GOLM1(A02975-2) rat intestine (石蜡片) SABC法 DAB显色

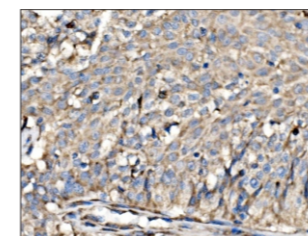
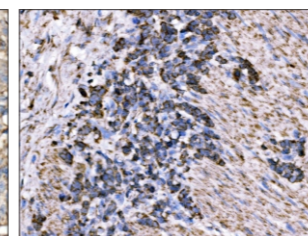
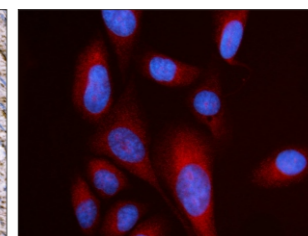
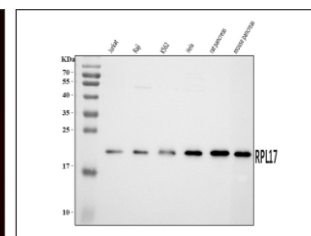





TOMM20 (A04039-2) human placenta (石蜡片) SABC法 DAB显色

TOMM20 (A04039-2) human rectal cancer (石蜡片) SABC法 DAB显色

TOMM20 (A04039-2) Rabbit polyclonal antibody Western blot

TOMM20 (A04039-2) SiHa Cell Dylight 488-羊抗兔 DAPI染核

RPL17 (A06980-2) human laryngeal carcinoma (石蜡片) SABC法 DAB显色

RPL17(A06980-2) human stomach cancer (石蜡片) SABC法 DAB显色

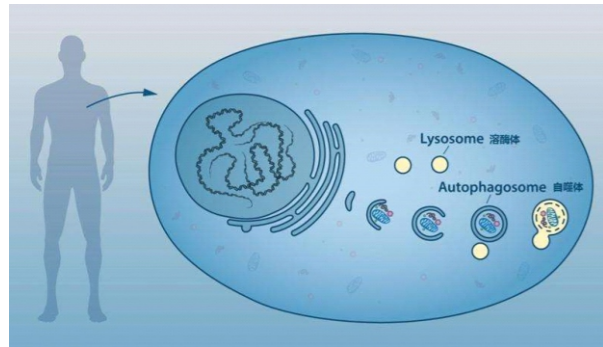
RPL17 (A06980-2) U20S Cell Dylight 594-羊抗兔 DAPI染核

RPL17 (A06980-2) Rabbit polyclonal antibody Western blot

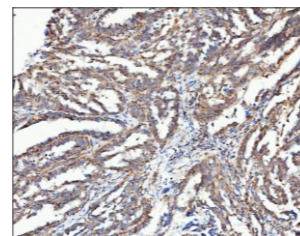
第八章 细胞自噬

自噬在古希腊语中是“自(auto)食(phagy)”。它是一种保守的细胞自我降解方式，是将受损细胞器及大分子物质通过溶酶体降解再利用的过程。基础水平的自噬是维持细胞稳态所必需的，同时自噬参与抗衰老、分化及发育、免疫及清除微生物、肿瘤等疾病的病理生理过程。根据结合分子的方式，自噬分为：巨自噬(macroautophagy)、微小自噬(microautophagy) 和伴侣分子介导的自噬(chaperone-mediated autophagy, CMA)。其中巨自噬研究得最多，本文所论述的自噬即指巨自噬。自噬是一系列自噬体结构演变的过程，由自噬相关基因(autophagy-related gene, ATG)执行精细的调控。在饥饿、低氧、药物等因素作用下，待降解的细胞成分周围会形成双层结构分隔膜，随后分隔膜逐渐延伸，最终将待降解的胞浆成分完全封闭形成自噬体(autophosome)；自噬体形成后将通过细胞骨架微管系统运输至溶酶体，二者融合形成自噬溶酶体(autopholysome)；最终其内容物在溶酶体酶作用下被细胞降解利用。目前研究发现自噬调节涉及多种信号通路，其中以腺苷单磷酸活化蛋白激酶(adenosine mono-phosphateactivated protein kinase, AMPK)及哺乳动物雷帕霉素受体(mammalian target of rapamycin, mTOR)信号通路为调控核心。AMPK促进自噬发生，而mTOR抑制自噬发生。此外，许多经典的凋亡信号通路或蛋白被发现与自噬调控之间存在着复杂的交织。

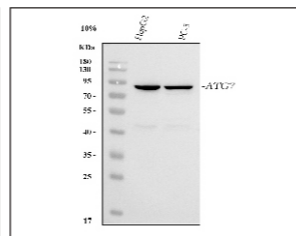
自噬对细胞死亡的调节具有双重性：温和的自噬一定程度上保护细胞免受有害条件的侵害促进细胞存活；严重或快速的自噬将诱导细胞程序性死亡，被称为自噬性细胞死亡(autophagy-mediated cell death, ACD)。



产品名称	货号	应用种属	应用范围
ATG4C	BM5175	human	WB,IHC,FCM
ATG5	BM4603	human,mouse,rat	WB,IHC,ICC/IF,IP
	BA3525-2	human,mouse,rat	WB
ATG7	A00346	human,mouse,rat	WB,FCM,IHC
	A00346-5	human	WB,IHC,ICC/IF,FCM,ELISA
ATG9A	BM5322	human,mouse,rat	WB,ICC/IF
	A03757-3	human,mouse,rat	WB,IHC,FCM,ELISA
ATG10	BM4543	human,mouse,rat	WB,IHC,ICC/IF,IP
	BM5104	human	WB,IP
ATG12	BM5176	human	WB,IHC,ICC/IF,IP,FCM
ATG13	PB0523	human,mouse,rat	WB
ATG14	PB9481	human,rat	WB,IHC,ICC/IF,IF,FCM
ATG16L1	BM5177	human,mouse,rat	WB,IHC
	A00526-3	human	WB,IHC,ICC/IF,ELISA
Beclin 1	PB9076	human,mouse,rat	WB,IHC,ICC/IF,FCM
	M00327-3	human,monkey,mouse,rat	WB,IHC,IF,FCM
LC3B	PA01524-1	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM,ELISA
LC3A	BM4367	human,mouse,rat	WB,IHC,ICC/IF
	M00300-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
P62	PB0458	human,monkey,mouse,rat	WB,IHC,ICC/IF,IF
	BM4385	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BA0412	human,mouse,rabbit,rat	IHC,WB
BCL2	BM0200	human	WB,IHC,ICC/IF
	MA00040	human,mouse,rat	WB,IHC
	A00040-2	human	WB,ICC/IF,FCM,ELISA
LAMP1	A00040-1	human,mouse,rat	WB,IHC,FCM
	BM4866	human	WB,IHC
LAMP2	BA2787-2	human,mouse	WB
	BM4357	human,mouse,rat	WB,IHC,IP
RAB7A	A01573-3	human	WB,ELISA
	A02409-1	human,mouse,rat	WB,IHC,FCM,ELISA
ULK1	BM4651	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00584-1	human,mouse,rat	WB,IHC,FCM
VAMP8	BM5170	human,mouse,rat	WB,IHC,ICC/IF
	BM4895	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM

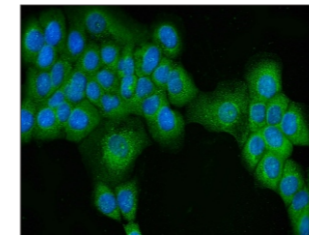


ATG7 (A00346-5) human ovarian serous adenocarcinoma (石蜡片) SV法 DAB显色

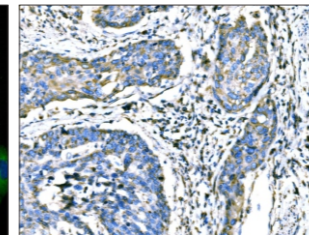


ATG7 (A00346-5) Rabbit polyclonal antibody Western blot

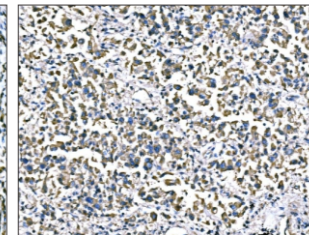
产品名称	货号	应用种属	应用范围
ATG3	M01768-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
ATG4A	A06539-3	human,mouse,rat	WB,FCM,ELISA
	BM5323	human,mouse,rat	WB,IHC,IP
mTOR	A00003-2	human,monkey	WB,IHC,ELISA
	BM4182	human,mouse,rat	WB,IHC,ICC/IF
mTOR (Phospho-S244)	BM4840	human,mouse,pig	WB,IHC
ATG4B	A02885-2	human,mouse,rat	WB,FCM
	M02885-1	human,mouse,rat	WB,IHC
ATG4C	A09728-2	human	WB,ICC/IF,FCM,ELISA



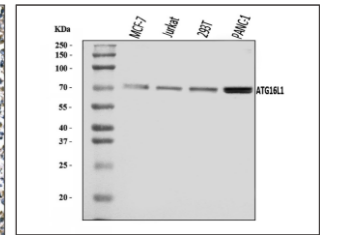
ATG16L1 (A00526-3) A431 Cell Dylight488-羊抗兔 DAPI染核



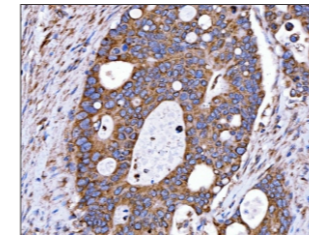
ATG16L1 (A00526-3) human esophageal squamous carcinoma (石蜡片) SABC法 DAB显色



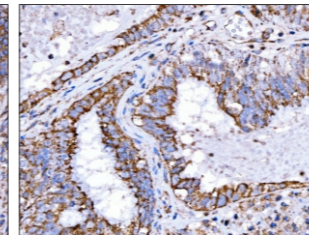
ATG16L1 (A00526-3) human lung cancer (石蜡片) SABC法 DAB显色



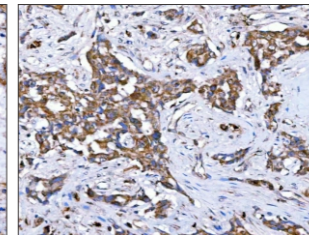
ATG16L1 (A00526-3) Rabbit polyclonal antibody Western blot



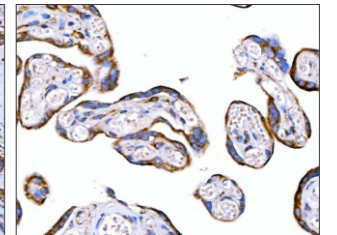
RAB7A (A02409-1) human duodenal papilla adenocarcinoma (石蜡片) SV法 DAB显色



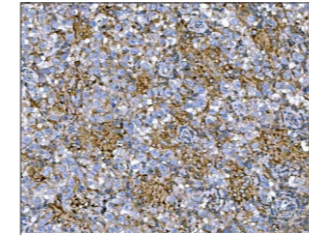
RAB7A (A02409-1) human endometrioid adenocarcinoma (石蜡片) SV法 DAB显色



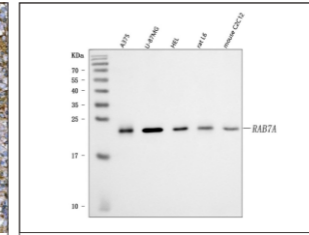
RAB7A (A02409-1) human lung adenocarcinoma (石蜡片) SV法 DAB显色



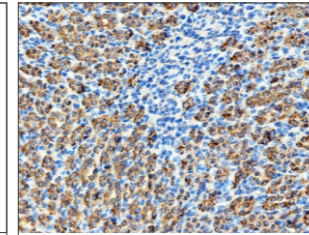
RAB7A (A02409-1) human placenta (石蜡片) SV法 DAB显色



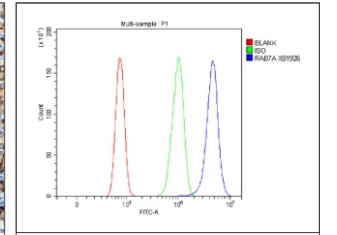
RAB7A (A02409-1) human testicular seminoma (石蜡片) SV法 DAB显色



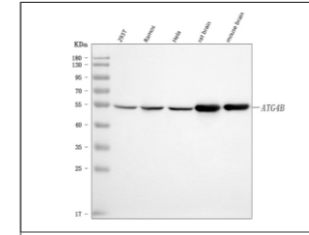
RAB7A (A02409-1) Rabbit polyclonal antibody Western blot



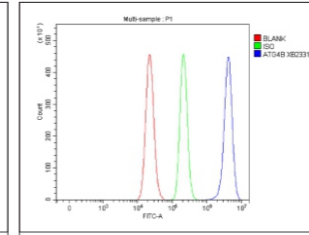
RAB7A (A02409-1) rat kidney (石蜡片) SV法 DAB显色



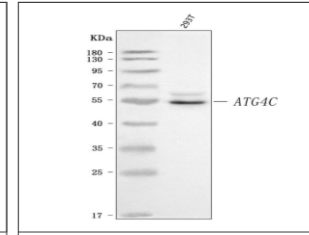
RAB7A(A02409-1) RH-35 Cell by Flow Cytometry



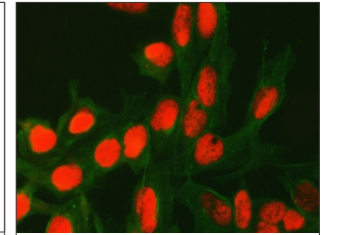
ATG4B (A02885-2) Rabbit polyclonal antibody Western blot



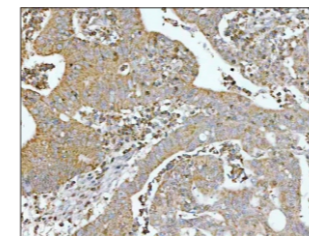
ATG4B (A02885-2) RT4 Cell by Flow Cytometry



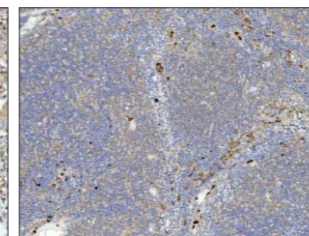
ATG4C (A09728-2) Rabbit polyclonal antibody Western blot



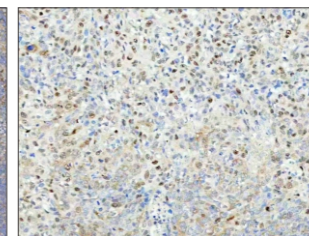
ATG4C (A09728-2) U20S Cell Dylight Cy3-羊抗兔 Beta Tubulin(green) DAPI染核



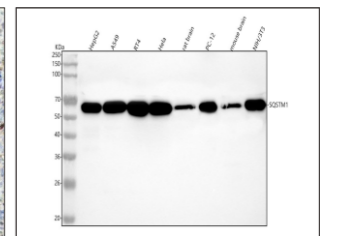
SQSTM1 (BM4385) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色



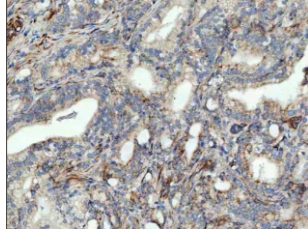
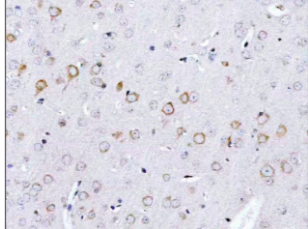
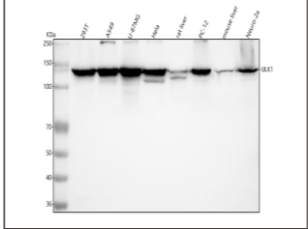
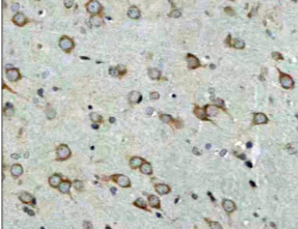
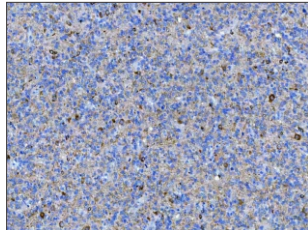
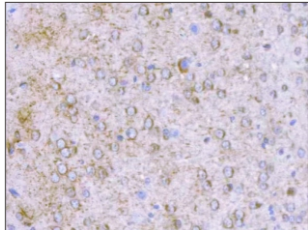
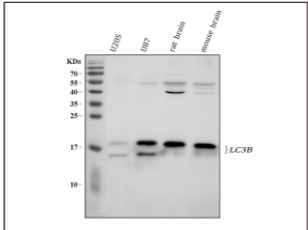
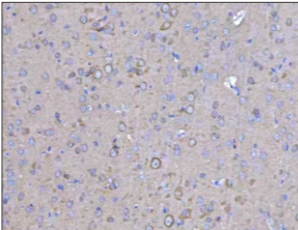
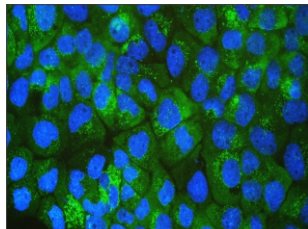
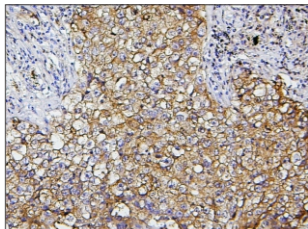
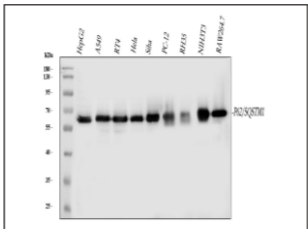
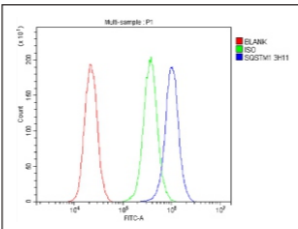
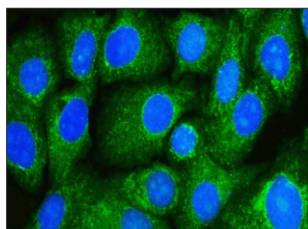
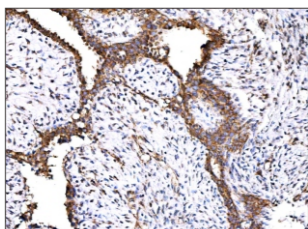
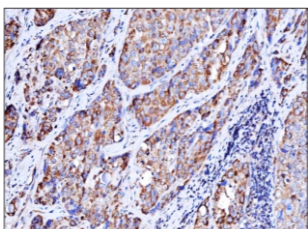
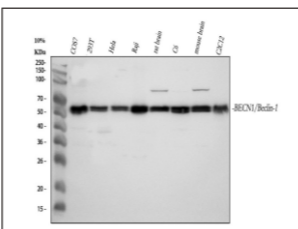
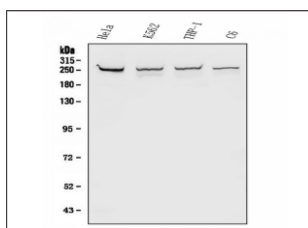
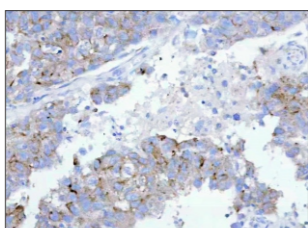
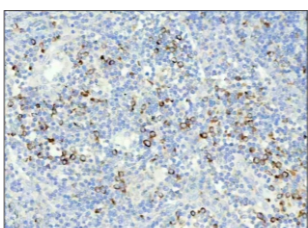
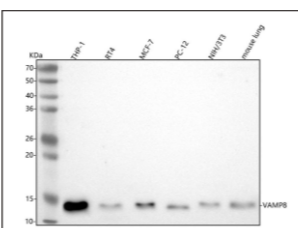
SQSTM1 (BM4385) human spleen (石蜡片) SV法 DAB显色



SQSTM1 (BM4385) human squamous cell carcinoma of cervix (石蜡片) SV法 DAB显色

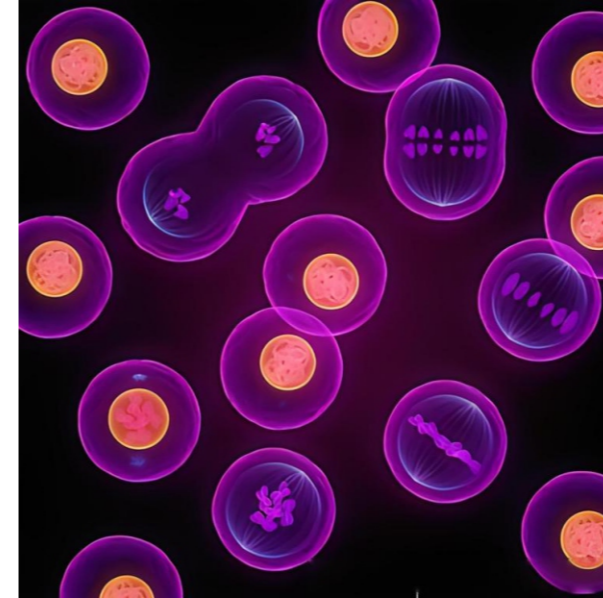


SQSTM1 (BM4385) Rabbit monoclonal antibody Western blot

			
ULK1 (BM5170) human prostate cancer (石蜡片) SV法 DAB显色	ULK1 (BM5170) mouse brain (石蜡片) SV法 DAB显色	ULK1 (BM5170) Rabbit monoclonal antibody Western blot	ULK1 (BM5170) rat brain (石蜡片) SV法 DAB显色
			
LC3B (PA01524) human glioma (石蜡片) SV法 DAB显色	LC3B (PA01524) mouse brain (石蜡片) SV法 DAB显色	LC3B (PA01524) Rabbit monoclonal antibody Western blot	LC3B (PA01524) rat brain (石蜡片) SV法 DAB显色
			
SQSTM1 (M00300-1) A431 Cell Dylight488-羊抗小鼠, DAPI染核	SQSTM1 (M00300-1) human lung cancer (石蜡片) SABC法 DAB显色	SQSTM1 (M00300-1) Mouse monoclonal antibody Western blot	SQSTM1 (M00300-1) PC-3 Cell by Flow Cytometry
			
BECN1 (M00327-2) HepG2 Cell Dylight488-羊抗小鼠, DAPI染核	BECN1 (M00327-2) human breast cancer (石蜡片) SV法 DAB显色	BECN1 (M00327-2) human liver cancer (石蜡片) SV法 DAB显色	BECN1 (M00327-2) Mouse monoclonal antibody Western blot
			
mTOR (BM4182) Rabbit monoclonal antibody Western blot	VAMP8 (BM4895) human breast cancer (石蜡片) SV法 DAB显色	VAMP8 (BM4895) human spleen (石蜡片) SV法 DAB显色	VAMP8 (BM4895) Rabbit monoclonal antibody Western blot

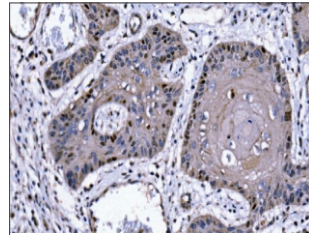
第九章 细胞增殖

细胞增殖是生物体的重要生命特征，细胞以分裂的方式进行增殖。单细胞生物，以细胞分裂的方式产生新的个体。多细胞生物，以细胞分裂的方式产生新的细胞，用来补充体内衰老或死亡的细胞。

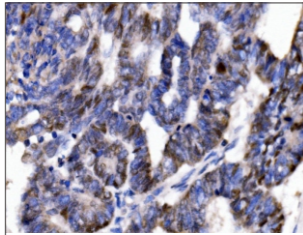


产品名称	货号	应用种属	应用范围
BAK	PB0506	human,mouse,rat	WB,IHC,ICC/IF,FCM
	M01163-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BA0411	human,mouse,rat	WB,IHC,ICC/IF
CDK1	PB9533	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM4062	human	WB,IHC,ICC/IF,IP
	M00209-6	human,mouse,rat	WB,IHC,FCM
CDK2	BM3926	human,mouse,rat	WB,IHC,ICC/IF
	PA1547	human,mouse,rat	WB
CDK4	BM4672	human,mouse,rat	WB,ICC/IF,IP
	PB9535	human,mouse,rat	WB,IHC,IF
CDK6	PB1047	human,mouse,rat	IHC,WB
	BM1616	human,mouse,rat	WB,ICC/IF
CDK7	BA1521-2	human,mouse,rat	WB
	BM1617	human	WB,IHC,ICC/IF
CHEK1	BM3968	human,mouse,rat	WB,ICC/IF,IP
	A01060	human	WB
CCNA1	PB0515	human	WB,ICC/IF
CCNA2	PB9424	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM4673	human,mouse,rat	WB,IHC,ICC/IF
CCNB1	BM4370	human,mouse,rat	WB,IHC,ICC/IF,FCM
	A00745-1	human,mouse,rat	WB,IHC,FCM,ICC/IF,ELISA

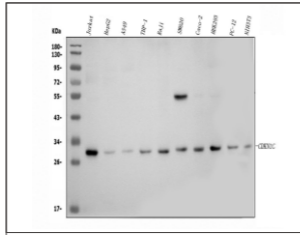
产品名称	货号	应用种属	应用范围
CCND1	BM4272	human,mouse,rat	WB,IHC,ICC/IF,IP
	PB0403	human,mouse,rat	WB
CCND2	PB0185	human	IHC
CCND2	A01079-1	human,mouse	WB,ELISA
	BM1583	human,mouse	WB,ICC/IF
CCND3	PB9103	human,mouse,rat	WB,FCM
	BM4664	human,mouse	WB,ICC/IF,FCM
CCNE1	A00543-2	human,mouse,rat	WB,IHC,FCM,ELISA
CCNE1 (Phospho-T77)	BM4653	human	WB,IHC,ICC/IF
CCNE2	BM4658	human,mouse	WB,IHC,ICC/IF
CCNH	BM4669	human,mouse	WB,IHC,ICC/IF,IP,FCM
	M03013-3	human,mouse,rat	WB
Histone H3	A12477-2	human,mouse,rat	WB,IHC,IF,ICC/IF
Histone H3 (mono methyl K18)	BM4323	human,mouse,rat	WB,IHC,ICC/IF
JNK1	A02608-1	human,mouse	WB,ICC/IF,IP,ELISA
	M02608-3	human,mouse,rat	WB
Ki67	A00254	human,mouse,rat	IHC,ELISA
	M00254-9	human	WB,IHC,ICC/IF,FCM
MCM3	BA2186	human,mouse,rat	WB,IHC,ICC/IF,FCM
	BM5692	human,mouse,rat	WB
MCM4	A02301-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	M02301	human,mouse	WB,IP,FCM
MCM5	A03642	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA
	M03642-2	human,mouse,rat	WB,IHC,ICC/IF,FCM
MCM6	A02755-1	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	M02755-1	human,mouse,rat	WB,IHC,ICC/IF,FCM
MCM7	BM5337	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
	PB9261	human,mouse,rat	WB,IHC,ICC,IF,ICC/IF,FCM
	PA1792	human	WB,IHC,FCM,ICC/IF
MCM7	M01649-3	human,rat	WB,IHC,ICC/IF,FCM
	A00016-5	human	WB,IHC,ICC/IF,IP,FCM
CDKN2A	BM1592	human	WB,IHC-F,ICC/IF
	A00145-1	human	WB,IHC,ICC/IF,ELISA
CDKN1A	BM3990	human,monkey	WB
	M00145-4	human	WB,IHC
	PB0075	human	WB,ICC/IF,FCM
CDKN1B	BM1594	human,mouse,rat	WB,ICC/IF
	A01244-2	human,mouse,rat	WB,IHC
CDKN1C	BM4129	human,mouse,rat	WB,IHC,ICC/IF,IP
	BM3888	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
PCNA	A00125	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
	BM4334	mouse,rat	WB,IHC
BIRC5	BM3975	human	WB,IHC,ICC/IF,IP,FCM
	A00379	human,mouse,rat	WB,IHC,ELISA



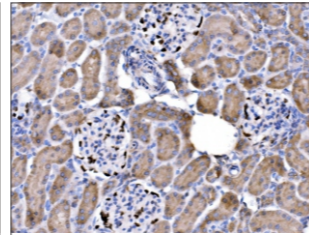
CDKN1C (A01244-2) human esophageal squamous carcinoma (石蜡片) SABC法 DAB显色



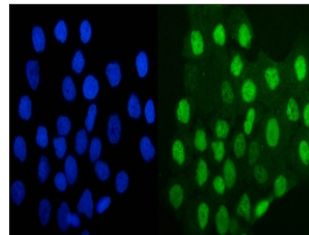
CDKN1C (A01244-2) human cervical cancer (石蜡片) SABC法 DAB显色



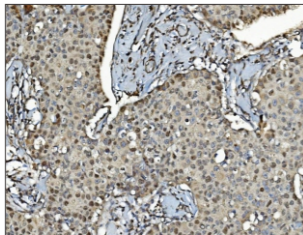
CDKN1C (A01244-2) Rabbit polyclonal antibody Western blot



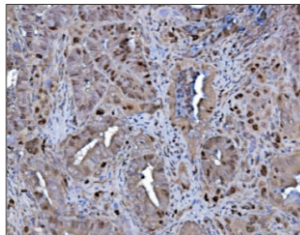
CDKN1C (A01244-2) rat kidney (石蜡片) SABC法 DAB显色



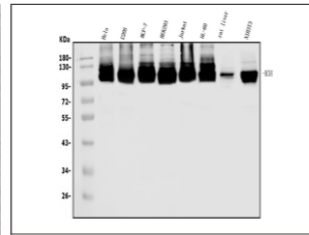
MCM4 (A02301-1) A431 Cell Dylight488-羊抗兔 DAPI染核



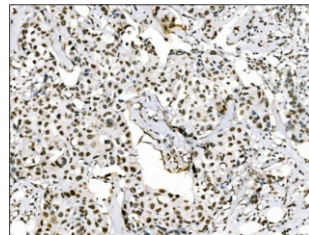
MCM4 (A02301-1) human breast cancer (石蜡片) SABC法 DAB显色



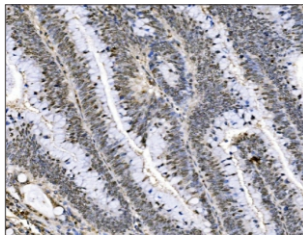
MCM4 (A02301-1) human gallbladder adenocarcinoma (石蜡片) SABC法 DAB显色



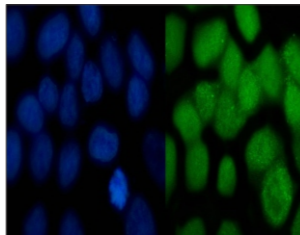
MCM4 (A02301-1) Rabbit polyclonal antibody Western blot



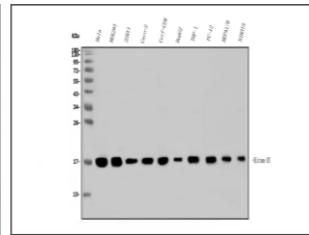
Histone H3 (A12477-2) human breast cancer (石蜡片) SABC法 DAB显色



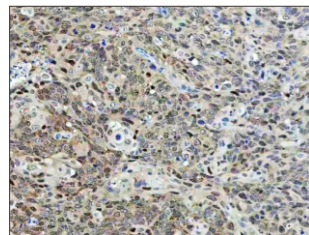
Histone H3 (A12477-2) human rectal cancer (石蜡片) SABC法 DAB显色



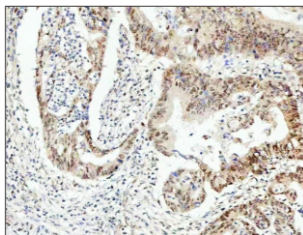
Histone H3 (A12477-2) MCF-7 Cell Dylight488-羊抗兔 DAPI染核



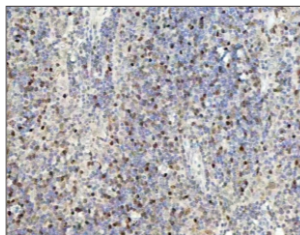
Histone H3 (A12477-2) Rabbit polyclonal antibody Western blot



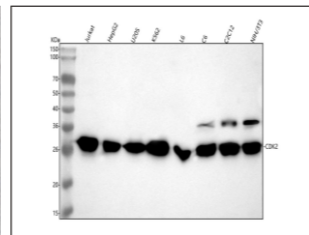
CDK2 (BM3926) human cervical squamous carcinoma (石蜡片) SV法 DAB显色



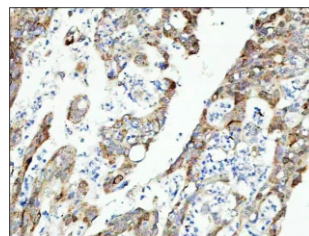
CDK2 (BM3926) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色



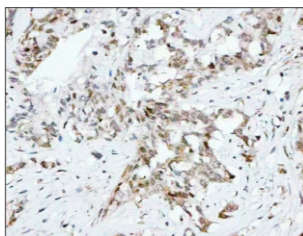
CDK2 (BM3926) human spleen (石蜡片) SV法 DAB显色



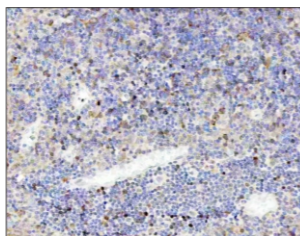
CDK2 (BM3926) Rabbit monoclonal antibody Western blot



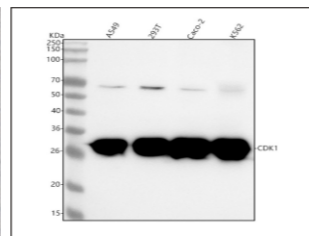
CDK1 (BM4062) human colorectal adenocarcinoma (石蜡片) SV法 DAB显色



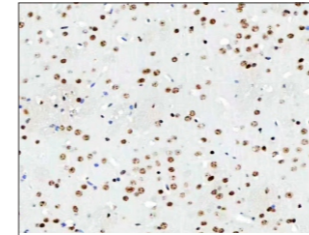
CDK1 (BM4062) human lung adenocarcinoma (石蜡片) SV法 DAB显色



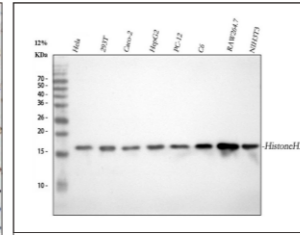
CDK1 (BM4062) human spleen (石蜡片) SV法 DAB显色



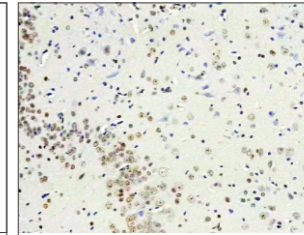
CDK1 (BM4062) Rabbit monoclonal antibody Western blot



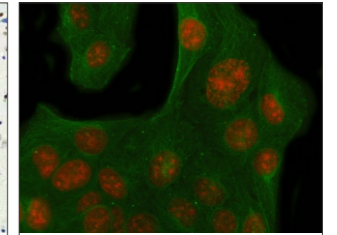
Histone H3 (BM4323) mouse brain (石蜡片) SV法 DAB显色



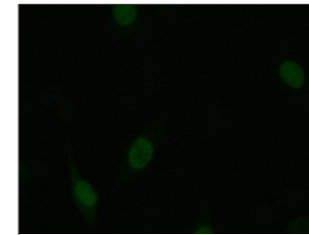
Histone H3 (BM4323) Rabbit monoclonal antibody Western blot



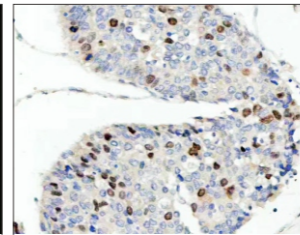
Histone H3 (BM4323) rat brain (石蜡片) SV法 DAB显色



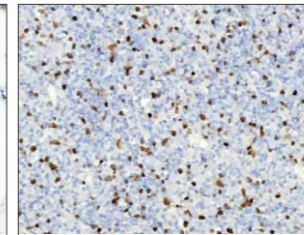
Histone H3 (BM4323) U2OS Cell Dylight Cy3-羊抗兔 Beta Tubulin (green) DAPI染核



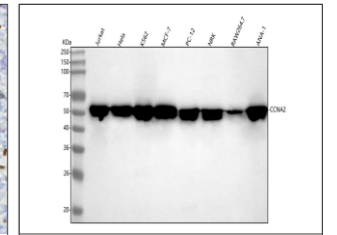
CCNA2 (BM4673) HeLa Cell Dylight488-羊抗兔 DAPI染核



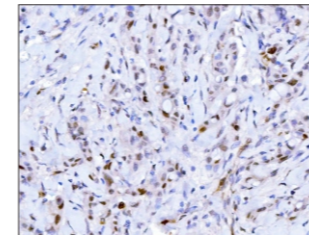
CCNA2 (BM4673) human liver cancer (石蜡片) SV法 DAB显色



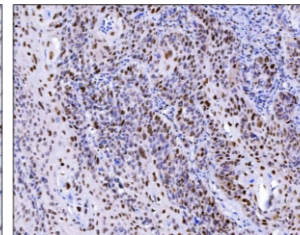
CCNA2 (BM4673) human spleen (石蜡片) SV法 DAB显色



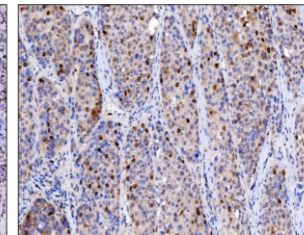
CCNA2 (BM4673) Rabbit monoclonal antibody Western blot



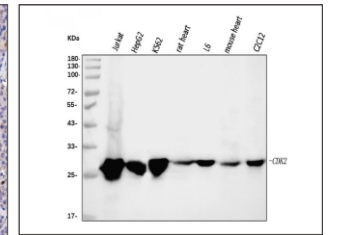
CDK2 (M00166-3) human breast cancer (石蜡片) SABC法 DAB显色



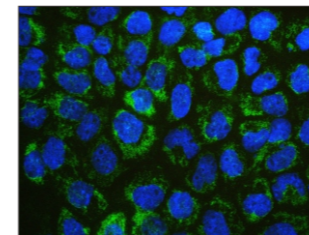
CDK2 (M00166-3) human laryngeal squamous cell carcinomas (石蜡片) SABC法 DAB显色



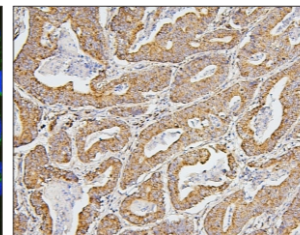
CDK2 (M00166-3) human liver cancer (石蜡片) SABC法 DAB显色



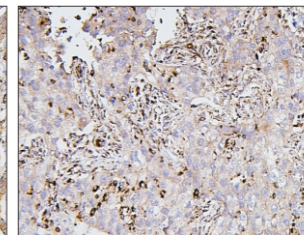
CDK2 (M00166-3) Mouse monoclonal antibody Western blot



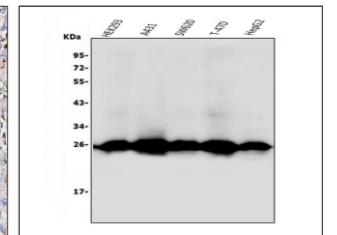
BAK1 (M01163-1) A431 Cell Dylight488-羊抗小鼠 DAPI染核



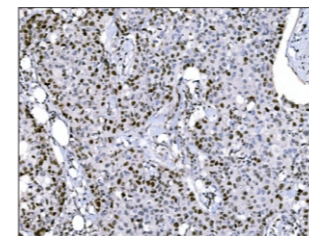
BAK1 (M01163-1) human intestinal cancer (石蜡片) SV法 DAB显色



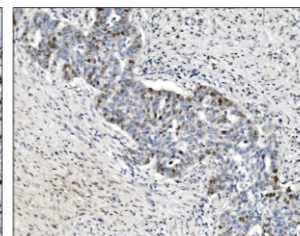
BAK1 (M01163-1) human lung cancer (石蜡片) SV法 DAB显色



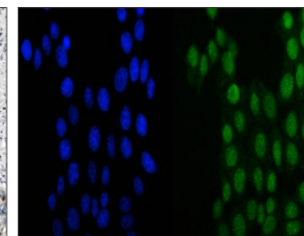
BAK1 (M01163-1) Mouse monoclonal antibody Western blot



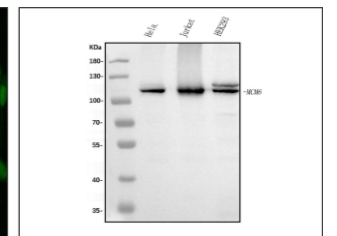
MCM6 (M02755) human breast cancer (石蜡片) SABC法 DAB显色



MCM6 (M02755) human ovarian serous adenocarcinoma (石蜡片) SABC法 DAB显色



MCM6 (M02755) MCF-7 Cell Dylight488-羊抗鼠 DAPI染核



MCM6 (M02755) Mouse monoclonal antibody Western blot

第十章 神经科学

神经科学，又称神经生物学，是专门研究神经系统的结构、功能、发育、演化、遗传学、生物化学、生理学、药理学及病理学的一门科学。传统的神经科学是生物科学的一个分支，然而，近年来神经科学开始与其他学科有了越来越多的交叉与融合，如认知和神经心理学，计算机科学，统计学，物理学，哲学和医学科学。



产品名称	货号	应用种属	应用范围
ALDH1A1	BM4034	human,mouse,rat	WB,IHC,ICC/IF,FCM,IP
	A01392	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
AlphalInterneixin	A03756-1	human,mouse,rat	WB,IHC,IF,ICC/IF,FCM,ELISA
	BM5524	human,mouse,rat	WB
AlphaSynuclein	BM4024	human	WB,IHC,ICC/IF,IP,FCM
	A00215-3	human,mouse,rat	WB,IHC,ICC/IF,ELISA
BDNF	BM4113	human,mouse,rat	WB,IHC,ICC/IF
	PB9075	human,mouse,rat	IHC,WB,FCM
Beta-Tubulin	A01857-1	human,mouse,rat	WB,IHC
	M05613-6	human,mouse,rat	WB,IHC,ICC/IF,FCM
CD11B	PB9140	human,mouse,rat	WB,IHC,FCM
	BM3925	human,mouse	WB,IHC,ICC/IF
CD45	A00555-4	mouse,rat	WB,IHC,ICC/IF,ELISA
	M00555-5	human	WB,IHC,IF,FCM
CD56	A00184-4	human,mouse,rat	WB,ICC/IF,FCM,ELISA
	M00184-3	human,mouse,rat,monkey	WB,IHC
CD68	BM4593	human,mouse,rat	WB
	BM5785	human	IF,IHC
CHAT	BM5100	human,mouse,rat	WB,ICC/IF,IP,FCM
	A01192-4	human,mouse,rat	WB,IHC,ICC/IF,FCM,ELISA
F4/80	A08751	mouse,rat	IHC,IF
GAP43	A01868-1	human,mouse,rat	WB,IHC,FCM,ELISA
	BM0879	human,mouse,rat	WB,IHC

产品名称	货号	应用种属	应用范围
GFAP	PB9082	human,mouse,rat	WB,IHC,IF
	M00213-8	human,mouse,rat	WB,IHC,IF
Glutamate receptor2	BM5334	human,mouse,rat	WB,ICC/IF,IP
	PB9205	human,mouse,rat	WB,IHC,IF,FCM
IBA1	BM5765	human,mouse,rat	WB,IHC
	PB0517	human,mouse,rat	IHC,IF
	A01394	human	WB,IHC
MAP2	A01201-4	human,mouse,rat	WB,IHC,ELISA
	BM1243	human,mouse,rat	WB,IHC
MBP	BM4869	human	WB,IHC
Nestin	BA1289	human,mouse,rabbit,rat	WB,IHC
	BM4494	human	IHC,ICC/IF
NeuN	BM4354	human,mouse,rat	WB
NEFL	A02482-1	human,mouse,rat	WB,IHC,IF,FCM,ELISA
	BM1295	human,mouse,rat,pig	WB,IHC
NGF-beta	BM4100	human,mouse,rat	WB,IHC,ICC/IF
	BA0611-2	human,mouse,rat	WB
NMDAR2A	PA1058-1	human,mouse,rat	WB,IHC
NMDAR2B	A01883-2	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM,ELISA
NSE	A02930	human,mouse,rat	WB,IHC
	BM4495	human,mouse,rat	WB,IHC,ICC/IF,FCM
OLIG1	A06108-3	human,mouse,rat	WB,FCM,ELISA
	M06108	human,mouse,rat	WB,FCM
OLIG2	BM3996	human,mouse,rat	WB,IHC
	A02247-2	mouse,rat	WB
PAX6	BM4746	human,mouse,rat	WB,IHC,ICC/IF
	A00273-2	human,mouse	WB,IHC,ICC/IF,FCM,ELISA
PRKCG	A01890	human,mouse,rat	WB,IHC,IF,ICC/IF
	BM0401	human,rabbit,mouse,rat	WB,IHC
Presenilin1	BM5520	human,mouse,rat	WB
	A00138-3	human,mouse,rat	WB,ICC/IF,FCM,ELISA
PSD95	BM4274	human,mouse,rat	WB,IHC,ICC/IF
	BA3304	human,mouse,rat	WB,IHC,IF
S100B	BM4087	human,mouse,rat,goat	WB,IHC,ICC/IF,IP
	PA1303	human,mouse,rat	WB
SOX2	BA3292	human,mouse,rat	WB,IHC
	BM4147	human,mouse	WB,IHC,ICC/IF
SYP	A05049	human,mouse,rat	WB,IHC,IF,ICC/IF
	BM4152	human,mouse,rat	WB,IHC,ICC/IF,IP,FCM
TAU	A00097-3	human,mouse,rat	WB,ICC/IF,ELISA
TAU(Phospho-S324)	BM5195	human,mouse,rat	WB,ICC/IF,IP
TH	BM4568	human,mouse,rat	WB,IHC,ICC/IF,FCM
	PB9449	mouse,rat	WB,IHC,IF
TrkB	A01388-4	human,mouse,rat	WB,IHC,ICC/IF,IP,ELISA
TrkB(Phospho-Y817)	BM4437	human,mouse,rat	WB,IHC,ICC/IF

NeuN (A11954-1) mouse brain (石蜡片) SV法 DAB显色	NeuN (A11954-1) Rabbit polyclonal antibody Western blot	NeuN (A11954-1) rat brain (石蜡片) Dylight Cy3-羊抗兔 DAPI染核	NeuN (A11954-1) rat brain (石蜡片) SV法 DAB显色
MBP (BA0094) Rabbit polyclonal antibody Western blot	MBP (BA0094) rat brain (石蜡片) Dylight Cy3-羊抗兔 DAPI染核	MBP (BA0094) rat brain (石蜡片) Dylight Cy3-羊抗兔 GFAP (green) DAPI染核	MBP (BA0094) rat cerebellum (石蜡片) SV法 DAB显色
SOX2 (BA3292) human laryngeal squamous cell carcinoma (石蜡片) SABC法 DAB显色	SOX2 (BA3292) mouse brain (石蜡片) SABC法 DAB显色	SOX2 (BA3292) Rabbit polyclonal antibody Western blot	SOX2 (BA3292) rat brain (石蜡片) SABC法 DAB显色
AIF1 (PB0517) human cervica squamous carcinoma (石蜡片) SV法 DAB显色	AIF1 (PB0517) human ovarian cancer (石蜡片) SV法 DAB显色	AIF1 (PB0517) rat brain (石蜡片) Dylight550-羊抗兔 DAPI染核	AIF1 (PB0517) rat brain (石蜡片) Dylight550-羊抗兔 DAPI染核
GFAP (PB9082) Rabbit polyclonal antibody Western blot	GFAP (PB9082) rat brain (石蜡片) Dylight Cy3-羊抗兔 DAPI染核	GFAP (PB9082) rat brain (石蜡片) SV法 DAB显色	GFAP (PB9082) rat cerebellum (石蜡片) Dylight594-羊抗兔 MAG (green) DAPI染核

<p>CCT2 is an aggregophagy receptor for clearance of solid protein aggregates</p> <p>IF=66.85 发表期刊: CELL DOI: 10.1016/j.cell.2022.03.005 作者单位: 北京膜生物学国家重点实验室 博士德引用产品: Anti-TCP1 Antibody(Clone#2E7)(M02389) Anti-CCT3 Antibody(PB9926)</p>	<p>Mitsugumin 53 drives stem cell differentiation easing intestinal injury and inflammation</p> <p>IF=52.7 发表期刊: Signal Transduction and Targeted Therapy DOI: 10.1038/s41392-025-02268-x 作者单位: 北京大学 博士德引用产品: Anti-Lysozyme/LYZ Antibody (BM4383)</p>	<p>Distinct tumor architectures and microenvironments for the initiation of breast cancer metastasis in the brain</p> <p>IF=48.8 发表期刊: CANCER CELL DOI: 10.1016/j.ccell.2024.08.015 作者单位: 纪念斯隆凯特琳癌症中心 博士德引用产品: Anti-CD68 Antibody(BA3638)</p>
<p>Distinct roles of TREM2 in central nervous system cancers and peripheral cancers</p> <p>IF=50.3 发表期刊: CANCER CELL DOI: 10.1016/j.ccell.2024.09.032 作者单位: 广州中山大学附属第一医院 博士德引用产品: Anti-CD206/MRC1 Antibody(A02285-2) Anti-iNOS/NOS2 Antibody(A00368) Anti-STAT3 Antibody(BM4052) Anti-STAT1 Antibody(BM4110) Anti-AKT1/2/3 Antibody(BM4400)</p>	<p>SIGLEC12 mediates plasma membrane rupture during necroptotic cell death</p> <p>IF=48.5 发表期刊: NATURE DOI: 10.1038/s41586-025-09741-1 作者单位: 德克萨斯大学西南医学中心 博士德引用产品: Anti-SIGLEC12 Antibody(A10550-1)</p>	<p>A metabolite-based resistance mechanism against malaria</p> <p>IF=45.8 发表期刊: SCIENCE DOI: 10.1126/science.adq6741 作者单位: 吉尔本基安分子医学研究所 博士德引用产品: Anti-UGT1A1 Antibody(A01865-1)</p>
<p>IRE1α silences dsRNA to prevent taxane-induced pyroptosis in triple-negative breast cancer</p> <p>IF=45.5 发表期刊: CELL DOI: 10.1016/j.cell.2024.09.032 作者单位: 德克萨斯大学MD安德森癌症中心 博士德引用产品: Anti-MEFV Antibody(A00764-1)</p>	<p>Hematopoietic stem cell niche generation and maintenance are distinguishable by an epitranscriptomic program</p> <p>IF=45.5 发表期刊: CELL DOI: 10.1016/j.cell.2024.03.032 作者单位: 哥伦比亚大学欧文医学中心 博士德引用产品: Anti-METTL3 Antibody(A01758-1)</p>	<p>SARS-CoV-2 Z-RNA activates the ZBP1-RIPK3 pathway to promote virus-induced inflammatory responses</p> <p>IF=44.1 发表期刊: CELL RESEARCH DOI: 10.1038/s41422-022-00775-y 作者单位: 中国科学院武汉病毒研究所 博士德引用产品: Anti-CD68 Antibody(BA3638)</p>
<p>Targeting ATAD3A-PINK1-mitophagy axis overcomes chemoimmunotherapy resistance by redirecting PD-L1 to mitochondria</p> <p>IF=44.1 发表期刊: CELL RESEARCH DOI: 10.1038/s41422-022-00766-z 作者单位: 陆军军医大学第一附属医院 博士德引用产品: Anti-TOM20/TOMM20 Antibody (BM4366)</p>	<p>DNA methyltransferase 3 alpha and TET methylcytosine dioxygenase 2 restrain mitochondrial DNA-mediated interferon signaling in macrophages</p> <p>IF=43.474 发表期刊: IMMUNITY DOI: 10.1016/j.immuni.2022.06.022 作者单位: 圣地亚哥加利福尼亚大学 博士德引用产品: Anti-IFIIT2 Antibody(A04428)</p>	<p>SLC19A1 transports immunoreactive cyclic dinucleotides</p> <p>IF=43.07 发表期刊: NATURE DOI: 10.1038/s41586-019-1553-0 作者单位: 加州大学伯克利分校 博士德引用产品: Anti-SLC19A1 Antibody(PB9504)</p>

期刊名称	论文标题	IF	DOI	作者单位	引用产品
Signal Transduction and Targeted Therapy	Corynebacterium parakroppenstedtii secretes a novel glycolipid to promote the development of granulomatous lobular mastitis	40.8	10.1038/s41392-024-01984-0	武汉大学人民医院	Anti-TNF Alpha/TNFA Antibody(BA0131)
NATURE	A somatic mutation in erythro-myeloid progenitors causes neurodegenerative disease	40.137	10.1038/nature23672	纪念斯隆·凯特琳癌症中心	Anti-Macrosialin CD68 Antibody(PA1518)
NATURE MATERIALS	Biomimetic niches reveal the minimal cues to trigger apical lumen formation in single hepatocytes	38.663	10.1038/s41563-020-0662-3	新加坡国立大学	Anti-SLC10A1 Antibody (PB9745)
CELL	Multiple Signaling Roles of CD3e and Its Application in CAR-T Cell Therapy	38.637	10.1016/j.cell.2020.07.018	中国科学院分子细胞科学卓越创新中心	Anti-CSK Antibody(PB9102)
Nature Nanotechnology	Non-invasive activation of intratumoural gene editing for improved adoptive T-cell therapy in solid tumours	38.3	10.1038/s41565-023-01378-3	浙江大学	Anti-BAG2 Antibody (BA3077-2)
CELL	A Multiscale Map of the Stem Cell State in Pancreatic Adenocarcinoma	36.216	10.1016/j.cell.2019.03.010	加利福尼亚大学	Anti-CELSR2/Egfl2 Antibody (A06880)
IMMUNITY	The SWI/SNF chromatin remodeling complexes BAF and PBAF differentially regulate epigenetic transitions in exhausted CD8+ T cells	32.4	10.1016/j.immuni.2023.05.008	宾夕法尼亚大学	Anti-ARID2 Antibody (A05064)
ADVANCED MATERIALS	Realizing Highly Efficient Sonodynamic Bactericidal Capability through the Phonon-Electron Coupling Effect Using Two-Dimensional Catalytic Planar Defects	32.086	10.1002/adma.202208681	香港大学	Anti-TNF Alpha/TNFA Antibody(BA0131)
IMMUNITY	The chemokine CCL1 triggers an AMFR-SPRY1 pathway that promotes differentiation of lung fibroblasts into myofibroblasts and drives pulmonary fibrosis	31.745	10.1016/j.immuni.2021.06.008	中南大学湘雅二医院	Anti-CCL1 Antibody(PB0052)
ADVANCED MATERIALS	Targeted Dual Small Interfering Ribonucleic Acid Delivery via Non-Viral Polymeric Vectors for Pulmonary Fibrosis Therapy	30.849	10.1002/adma.202007798	盱眙县人民医院	Anti-a-SMA/ACTA2 Antibody (BM0002)
GASTROENTEROLOGY	p21 Prevents the Exhaustion of Cluster of Differentiation 4-Positive T Cells Within the Antitumor Immune Response Against Colorectal Cancer	29.4	10.1053/j.gastro.2023.09.017	弗里德里希·亚历山大大学	Anti-p21/CDKN1A Antibody (A00145-1)
ADVANCED MATERIALS	Neonatal Tissue-derived Extracellular Vesicle Therapy (NEXT): A Potent Strategy for Precision Regenerative Medicine	29.4	10.1002/adma.202300602	四川大学华西医院	Anti-CD68 Antibody(BA3638)
Cell Metabolism	SGLT2 inhibitor promotes ketogenesis to improve MASH by suppressing CD8+ T cell activation	27.7	10.1016/j.cmet.2024.08.005	南方医科大学南方医院	Anti-SGLT2/SLC5A2 Antibody (A03748-1)
ADVANCED MATERIALS	Pulling the Rug Out from Under: Biomechanical Microenvironment Remodeling for Induction of Hepatic Stellate Cell Quiescence	27.4	10.1002/adma.202406590	天津大学	Anti-a-SMA/ACTA2 Antibody (BM3902)
Cell Metabolism	Pharmacological inhibition of arachidonate 12-lipoxygenase ameliorates myocardial ischemia-reperfusion injury in multiple species	27.287	10.1016/j.cmet.2021.08.014	武汉大学人民医院	Anti-CD11B/Integrin Alpha M/ITGAM Antibody(BM3925)
Nature Biomedical Engineering	Injectable and conductive cardiac patches repair infarcted myocardium in rats and minipigs	25.671	10.1038/s41551-021-00796-9	南方医科大学	Anti-a-SMA/ACTA2 Antibody (BM0002)
IMMUNITY	Intestinal CXCR6+ ILC3s migrate to the kidney and exacerbate renal fibrosis via IL-23 receptor signaling enhanced by PD-1 expression	25.5	10.1016/j.immuni.2024.05.004	中山大学附属第一医院	Anti-Fibronectin/FN1 Antibody(BA1772)
BLOOD	The secreted tyrosine kinase VLK is essential for normal platelet activation and thrombus formation	25.476	10.1182/blood.2020010342	哈佛大学口腔医学院	Anti-CD41/Integrin Alpha 2B/ITGA2B Antibody (PB9647)
Cell Stem Cell	Chemical-induced chromatin remodeling reprograms mouse ESCs to totipotent-like stem cells	25.269	10.1016/j.stem.2022.01.010	中山大学	Anti-GAPDH Antibody (BM1623)
International Journal of Oral Science	Tracing PRX1+ cells during molar formation and periodontal ligament reconstruction	24.897	10.1038/s41368-021-00155-z	同济大学附属口腔医院	Anti-COLLAGEN Type I COL1A1 Antibody(B00329)

博士德生物

33年,只研发了20000多种抗体

33年,却收获了80000多篇引用文章

33年,只研发了2000多种精品ELISA

33年,却服务了10000多所全球院校和医院

33年,销售了两百多万支抗体

33年,却没有一份假货投诉或曝光

拒绝假货,追求探索的快乐

拒绝应付,追求卓越的科研

原谅我们

从不随大流

博士德期待

与坚持探索的你

共同创造科研的崇高价值