Product datasheet

Anti-Beta Actin/ACTB Antibody

Catalog Number: *BM0627*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Beta Actin/ACTB Antibody
Gene Name	ACTB
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse, rat, chicken, monkey, pig, rabbit
Tested Application	WB, IHC
Contents	200ug/ml antibody with PBS， 0.02% NaN3 , 1mg BSA
Immunogen	slightly modified beta-cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH.
Purification	Ascites
Observed MW	42 kDa(不适用于心肌样本的检测)
Dilution Ratios	Western blot (WB): 1:5000-20000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

The primary site of action of cytochalasin B on cell motility processes is beta-actin. Habets et al.(1992) generated hybrids that harbor only specific regions of human chromosome 7 and assigned the ACTB locus to 7p15-p12. ACTB and the other assigned beta-actin-related sequences are dispersed over at least four different chromosomes including one locus assigned to the X chromosome. A mutation of beta-actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia.

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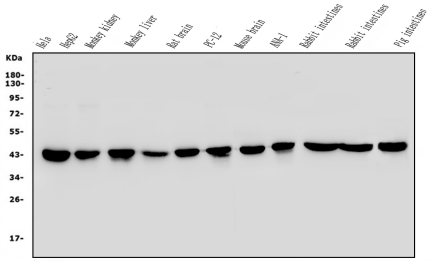
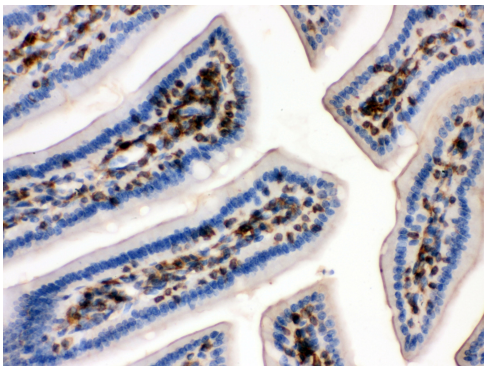
Reference

Anti-Beta Actin/ACTB Antibody被引用在1545文献中。

Selected Validation Data



Western blot analysis of anti- β-Actin antibody (BM0627).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Human HELA whole cell lysates,Lane 2: Human HepG2 whole cell lysates,Lane 3: Monkey kidney tissue lysates,Lane 4: Monkey liver tissue lysates,Lane 5: Rat brain tissue lysates,Lane 6: Rat PC-12 whole cell lysates,Lane 7: Mouse brain tissue lysates,Lane 8: Mouse ANA-1 whole cell lysates,Lane 9: Rabbit intestines tissue lysates,Lane 10: Rabbit intestines tissue lysates,Lane 11: Pig intestines tissue lysates.Use rabbit anti- β-Actin 1:5000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for β-Actin at approximately 42KD. The expected band size for β-Actin is at 42KD.



IHC analysis using anti- β-Actin antibody (BM0627).detected in paraffin-embedded section of Mouse Intestine tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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