

Basic Information

Product Name	Anti-mTOR Antibody (Clone#CBD-13)	
Gene Name	MTOR	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
Immunogen	A synthesized peptide derived from human mTOR	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	289 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:30
	Flow Cytometry (FCM):	1:20

Storage

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

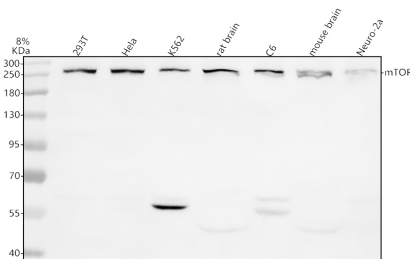
Background Information

The mammalian target of rapamycin (mTOR), also known as the mechanistic target of rapamycin and FK506-binding protein 12-rapamycin-associated protein 1 (FRAP1), is a kinase that in humans is encoded by the MTOR gene. The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene.

Reference

Anti-mTOR Antibody (Clone#CBD-13)被引用在33文献中。

Selected Validation Data



Western blot analysis of anti-mTOR antibody (BM4182). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human 293T whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human K562 whole cell lysates,

Lane 4: rat brain tissue lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: mouse brain tissue lysates,

Lane 7: mouse Neuro-2a whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-mTOR antigen

affinity purified monoclonal antibody (BM4182) at a dilution of

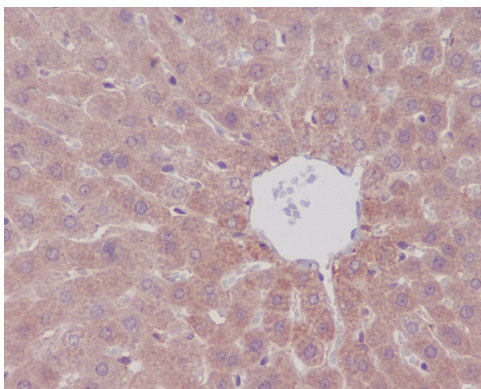
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for mTOR at approximately 289 kDa. The expected band

size for mTOR is at 289 kDa.



Immunohistochemical analysis of paraffin-embedded rat liver, using mTOR Antibody.