Product datasheet

Anti-mTOR Antibody

Catalog Number: *A00003-2*

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antibody and ELISA experts
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Basic Information

Product Name	Anti-mTOR Antibody
Gene Name	MTOR
Source	Rabbit
Isotype	IgG
Species Reactivity	human, monkey
Tested Application	WB, IHC, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human mTOR/MTOR recombinant protein (Position: N2093-N2537).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	289KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (ELISA)： 1:100-1000 (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. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

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 theMTOR 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被引用在1文献中。

Selected Validation Data

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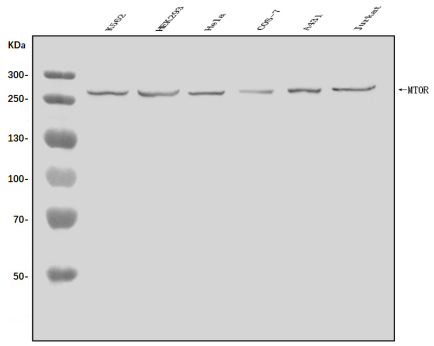

Figure 1. Western blot analysis of anti- MTOR antibody (A00003-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human K562 whole cell lysates,Lane 2: human HEK293 whole cell lysates,Lane 3: human HELA whole cell lysates,Lane 4: monkey COS-7 whole cell lysates,Lane 5: human A431 whole cell lysates,Lane 6: human Jurkat whole cell lysates, Use rabbit anti- MTOR 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for MTOR at approximately 289KD. The expected band size for MTOR is at 289KD.

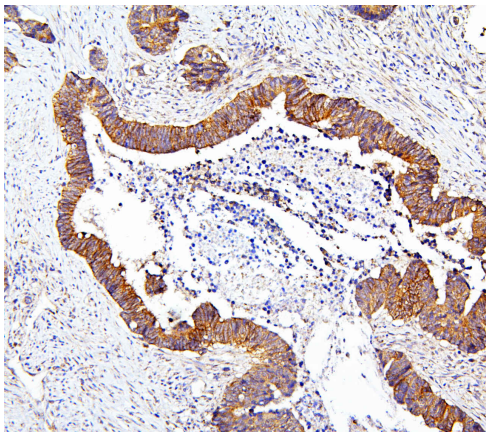

Figure 2. IHC analysis of MTOR using anti-MTOR antibody (A00003-2).MTOR was detected in paraffin-embedded section of human colon cancer tissues. anti-MTOR Antibody (A00003-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.