

mTOR Recombinant antibody

Cat: B36066S

Company: HaoKebio

Uniprot ID: P42345

Applications: IHC:1:50-1:500

Organism: Rabbit

IHC-Polymer:1:200-1:2000

Species reactivity: Human Mouse Rat

IHC-TSA:1:250-1:2500

Molecular Weight Calculation: 289 kDa

WB:1:1000-1:6000

Observed Molecular Weight: 250-289 kDa

IP:1ug for 1mg of total protein lysate

FC:1:200-1:600

Background:

mTOR, also named as FRAP1, FRAP, FRAP2 and RAP1, belongs to the PI3/PI4-kinase family. MTOR is a Ser/Thr protein kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. MTOR is kinase subunit of both mTORC1 and mTORC2, which regulate cell growth and survival in response to nutrient and hormonal signals. mTORC1 is activated in response to growth factors or amino-acids. mTORC2 is also activated by growth factors, but seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTOR is phosphorylated at Ser2448 via the PI3 kinase/Akt signaling pathway and autophosphorylated at Ser2481. mTOR plays a key role in cell growth and homeostasis and may be abnormally regulated in tumors.

Synonyms:

FRAP1, 6H23, EC:2.7.11.1, FKBP12-rapamycin complex-associated protein, FRAP

Immunogen:

Recombinant protein

Isotype:

IgG

Subcellular location:

Cytoplasm, Nucleus

Purity:

Affinity purification

Form:

Liquid

Storage Buffer:

PBS with 0.02% sodium azide, 100 µg/ml BSA and 50% glycerol.

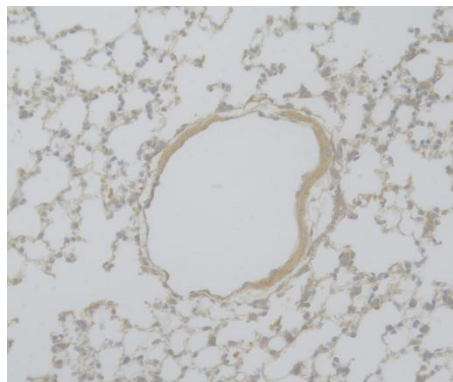
Storage:

Store at -20 °C for one year.

Experimental procedure:

Antigen retrieval: Citrate buffer (pH 9.0), Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

Images:



Sample: Mouse lungs, 4% PFA 12-24h

Source of Reagents:

发表[中文论文]请标注:mTOR(B36066S)由杭州浩克生物技术有限公司提供;

发表[英文论文]请标注:mTOR(B36066S) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.