AP1084

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Phospho-mTOR-S2448 Rabbit mAb

Catalog No.: AP1084 Recombinant

Basic Information

Observed MW
288kDa

Calculated MW
289kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,IHC-P,ELISA

Cross-Reactivity
Human,Mouse,Pig

Background

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 kinase is a component of two distinct complexes, mTORC1, which controls protein synthesis, cell growth and proliferation, and mTORC2, which is a regulator of the actin cytoskeleton, and promotes cell survival and cell cycle progression. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. Inhibitors of mTOR are used in organ transplants as immunosuppressants, and are being evaluated for their therapeutic potential in SARS-CoV-2 infections. Mutations in this gene are associated with Smith-Kingsmore syndrome and somatic focal cortical dysplasia type II. The ANGPTL7 gene is located in an intron of this gene.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:100

Immunogen Information

Gene ID
2475

Swiss Prot
P42345

Immunogen
A synthetic phosphorylated peptide around S2448 of human mTOR (NP_004949.1).

Synonyms
SKS; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; Phospho-mTOR-S2448

Contact

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Product Information

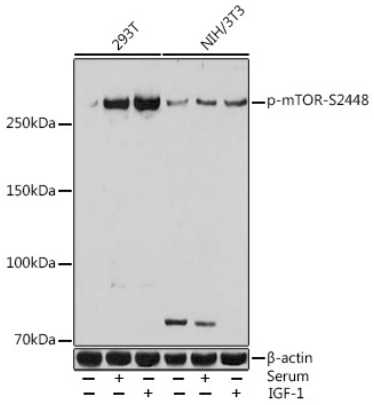
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using Phospho-mTOR-S2448 antibody (AP0845) at 1:1000 dilution.293T cells were treated by 10% FBS at 37℃ for 30 minutes after serum-starvation overnight.293T cells were treated by IGF-1 (50 ng/mL) at 37℃ for 5 minutes after serum-starvation overnight.NIH/3T3 cells were treated by 10% FBS at 37℃ for 30 minutes after serum-starvation overnight.NIH/3T3 cells were treated by IGF-1 (50 ng/mL) at 37℃ for 5 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.