

Phospho-mTOR-S2448 Rabbit mAb

Catalog No.: AP1413 **Recombinant** **1 Publications**

Basic Information

Observed MW

310kDa/289kDa

Calculated MW

289kDa

Category

Primary antibody

Applications

WB,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

Clone/No. number

ARC59819

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
IF/ICC	1:100-1:500ELISAREcommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

2475

Swiss Prot

P42345

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

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

Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

Product Information

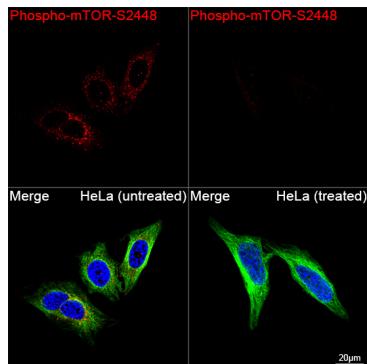
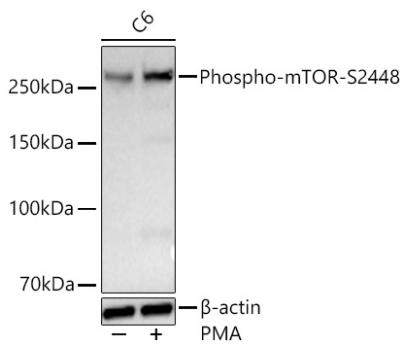
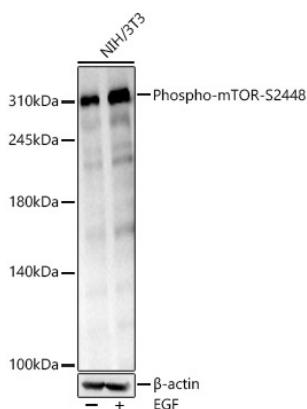
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Confocal imaging of HeLa cells (untreated) and HeLa cells (treated with rapamycin) using Phospho-mTOR-S2448 Rabbit mAb (AP1413, dilution 1:300) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.