# Phospho-mTOR-S2481 Rabbit mAb



Catalog No.: AP0978 Recombinant 3 Publications

## **Basic Information**

## **Observed MW**

289kDa

#### **Calculated MW**

289kDa

## Category

Primary antibody

## **Applications**

WB,ELISA

## **Cross-Reactivity**

Human, Mouse

#### CloneNo number

ARC1522

# **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 FKBP12rapamycin 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

# **Recommended Dilutions**

**WB** 1:500 - 1:2000

**ELISA** 

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

# **Immunogen Information**

**Gene ID Swiss Prot** 2475 P42345

## **Immunogen**

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

## **Synonyms**

SKS; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; Phospho-mTOR-S2481

## **Contact**

2		400-999-6126
$\bowtie$		cn.market@abclonal.com.cn
•	T	www.abclonal.com.cn

## **Product Information**

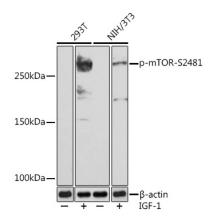
Source Isotype **Purification** Rabbit Affinity purification IgG

#### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

# **Validation Data**



Western blot analysis of various lysates using Phospho-mTOR-S2481 (AP0978) at 1:1000 dilution. Both 293T cells and NIH/3T3 cells were treated with IGF-1 (50 ng/mL) at  $37^{\circ}$ C for 5 minutes after serum-starvation overnight.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins:  $25\mu g$  per lane. Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020).

Exposure time: 3min.