

# [KD Validated] mTOR Rabbit pAb

Catalog No.: A23168 **1 Publications**

## Basic Information

**Observed MW**

289kDa

**Calculated MW**

289kDa

**Category**

Primary antibody

**Applications**

ELISA,WB

**Cross-Reactivity**

Human, Mouse, Rat

## 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

## Immunogen Information

**Gene ID**

2475

**Swiss Prot**

P42345

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human mTOR (NP\_004949.1).

**Synonyms**

SKS; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; [KD Validated] mTOR

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

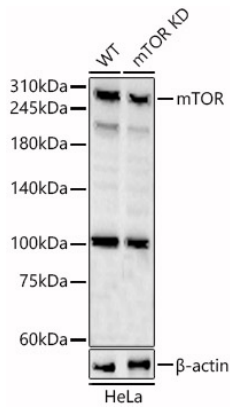
**Storage**

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

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

## Validation Data

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Western blot analysis of lysates from wild type(WT) and mTOR knockdown (KD) HeLa(KD) cells, using [KD Validated] mTOR Rabbit pAb (A23168) at 1:800 dilution.

Secondary antibody: HRP-conjugated 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: 30s.