

# [KD Validated] mTOR Rabbit mAb

Catalog No.: A25581 **Recombinant** **3 Publications**

## Basic Information

### Observed MW

289 kDa

### Calculated MW

289 kDa

### Category

Primary antibody

### Applications

WB,IHC-P,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC63981

## 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** 1:3000 - 1:12000

**IHC-P** 1:200 - 1:2000

**ELISA** Recommended 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

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

FRAP; FRAP1; FRAP2; RAFT1; RAP1

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

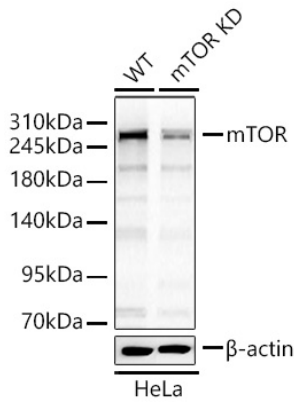
Affinity purification

### Storage

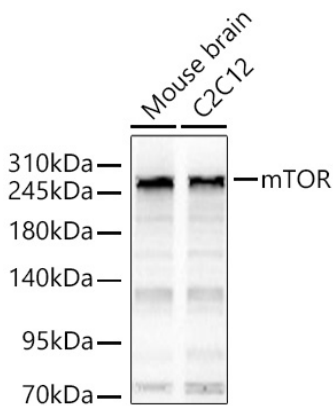
Store at -20°C. Avoid freeze / thaw cycles.

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.

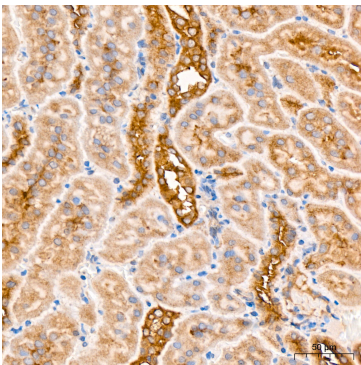
## Validation Data



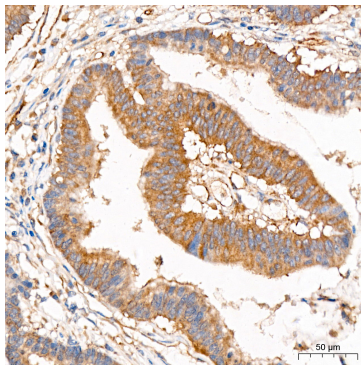
Western blot analysis of lysates from wild type (WT) and mTOR knockdown (KD) HeLa cells using [KD Validated] mTOR Rabbit mAb (A25581) at 1:6000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20 s.



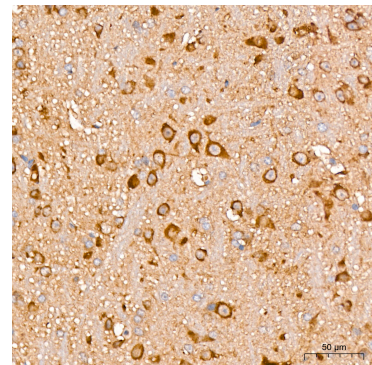
Western blot analysis of various lysates using [KD Validated] mTOR Rabbit mAb (A25581) at 1:6000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using [KD Validated] mTOR Rabbit mAb (A25581) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M Citrate Buffer (pH 6.0) prior to IHC staining.



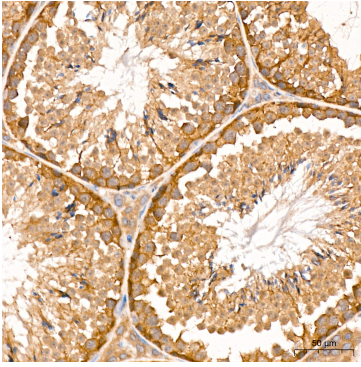
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] mTOR Rabbit mAb (A25581) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KD Validated] mTOR Rabbit mAb (A25581) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M Citrate Buffer (pH 6.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KD Validated] mTOR Rabbit mAb (A25581) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M Citrate Buffer (pH 6.0) prior to IHC staining.