

Product datasheet for TA378783S

MTOR Rabbit Polyclonal Antibody

Product data:

Product Type:Primary AntibodiesApplications:ELISA, ICC/IF, IP, WBRecommended Dilution:WB,1:100 - 1:500

IF/ICC,1:50 - 1:200

IP,0.5 μ g-4 μ g antibody for 200 μ g-400 μ g extracts of whole cells

ELISA,Recommended starting concentration is 1 μg/mL. Please optimize the concentration

based on your specific assay requirements.

Reactivity: Human, Mouse
Modifications: Unmodified

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Formulation: Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

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

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 289kDa

Gene Name: mechanistic target of rapamycin

Database Link: Entrez Gene 2475 Human

P42345



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



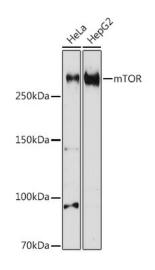
Background:

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.

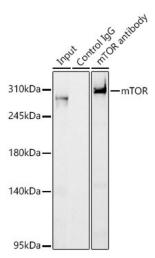
Synonyms:

FLJ44809; FRAP; FRAP1; FRAP2; KIAA1303; RAFT1; RAPT1; RAPTOR; RPTOR

Product images:

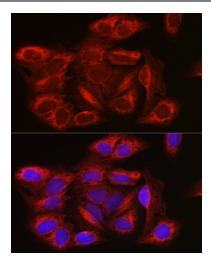


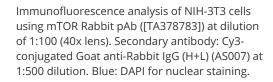
Western blot analysis of various lysates using mTOR Rabbit pAb ([TA378783]) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

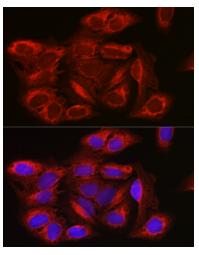


Immunoprecipitation analysis of 300ug extracts of K-562 cells using 3ug mTOR Rabbit pAb ([TA378783] 1:50). Western blot was performed from the immunoprecipitate using mTOR Rabbit pAb (A2445) at a dilition of 1:500.









Immunofluorescence analysis of U-2 OS cells using mTOR Rabbit pAb ([TA378783]) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.