

Product datasheet for **TA306210**

MTOR Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	TOR antibody was raised against a 15 amino acid peptide from near the amino terminus of human TOR.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	mechanistic target of rapamycin
Database Link:	NP_004949 Entrez Gene 56717 Mouse Entrez Gene 2475 Human P42345



[View online »](#)

Background:

The mammalian Target of Rapamycin (TOR, also known as mTOR) is an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors (reviewed in 1). It was initially discovered as a kinase whose ability to stimulate T cell proliferation in response to IL-2 could be inhibited by the immunosuppressive drug rapamycin (2,3). Rapamycin inhibits TOR in other cell types resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation (reviewed in 4). TOR is normally associated with the regulatory proteins RAPTOR and GbetaL. Its downstream targets are thought to be the ribosomal protein S6 kinases and the eukaryotic initiation factor 4E binding proteins (4EBPs). Regulation of these protein families allows TOR to control protein biosynthesis (4).

Synonyms:

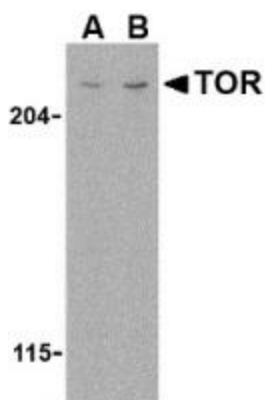
FRAP; FRAP1; FRAP2; RAFT1; RAPT1; SKS

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Acute myeloid leukemia, Adipocytokine signaling pathway, ErbB signaling pathway, Glioma, Insulin signaling pathway, mTOR signaling pathway, Pathways in cancer, Prostate cancer, Type II diabetes mellitus

Product images:

Western blot analysis of TOR in L1210 cell lysate with TOR antibody at (A) 1 and (B) 2 ug/mL.



Immunocytochemistry of TOR in L1210 cells with TOR antibody at 2 ug/mL.