



TOR Antibody

Catalog: OM293769

Product profile

Product name	TOR Antibody
Antibody Type	Primary Antibodies
Product description	TOR Antibody: 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. 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. Rapamycin inhibits TOR in other cell types resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation. 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.1) Shamji AF, Ngheim P, and Schreiber SL. Integration of growth factor and nutrient signaling: implications for cancer biology. Mol. Cell 2003; 12:271-80.
Immunogen	TOR antibody was raised against a 15 amino acid synthetic peptide from near the amino terminus of human TOR. The immunogen is located within amino acids 210 - 260 of TOR.

Key Feature

Clonality	Polyclonal
Isotype	lgG
Host Species	Rabbit
Tested Application	ELISA ICC WB
	TOR antibody can be used for the detection of TOR by Western blot at 1 to 2 μ g/mL. Antibody can also be used for immunocytochemistry starting at 2 μ g/mL.
Species Reactivity	Human Mouse
Concentration	1mg/ml
Purification	Affinity purified

Target Information

Gene Symbol

FRAP1

	TOR Antibody: FRAP
Alternative Names	FRAP1
	FRAP2
	RAFT1
	RAPT1
	FRAP
	FK506-binding protein 12-rapamycin complex-associated protein 1
	mTOR
Sequence Similarities	2) Cat. No. 17-204 - L1210 Cell Slide

Database Links

Entrez Gene	2475
Protein Accession	NP_004949

Application



Additional Information

Form	Liquid
Storage Instructions	TOR antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Storage Buffer	TOR Antibody is supplied in PBS containing 0.02% sodium azide.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt