

Rabbit mTOR (FRAP1) Polyclonal Antibody | anti-MTOR antibody

mTOR (FRAP1) Antibody (S2481)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286488	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

mTOR (FRAP1); Polyclonal Antibody; mTOR (FRAP1) Antibody (S2481); Serine/threonine-protein kinase mTOR; FK506-binding protein 12-rapamycin complex-associated protein 1; FKBP12-rapamycin complex-associated protein; Mammalian target of rapamycin; mTOR; Mechanistic target of rapamycin; Rapamycin and FKBP12 target 1; Rapamycin target protein 1; MTOR; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; anti-MTOR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This mTOR (FRAP1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2459-2488 amino acids from human mTOR (FRAP1).
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.35 (varies by lot)
Sequence Positions	2459-2488
Sequence Length	2549
Applicable Applications for anti-MTOR antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescent analysis of mTOR (FRAP1) Antibody (S2481) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human testis tissue reacted with FRAP1-pS2481, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of FRAP1 (arrow) using rabbit polyclonal FRAP1 Antibody (S2481). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FRAP1 gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-MTOR antibody	FRAP1 belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. FRAP1 is a part of the TORC2 complex which plays a critical role in AKT1 Ser-473 phosphorylation, and may modulate the phosphorylation of PKCA and regulate actin cytoskeleton organization.
Product Categories/Family for anti-MTOR antibody	Cancer; Cardiovascular; Cell Biology; Metabolism
References	Dowling,R.J., Cancer Res. 67 (22), 10804-10812 (2007) Bai,X., Science 318 (5852), 977-980 (2007) Zhou,J., Proc. Natl. Acad. Sci. U.S.A. 104 (41), 16158-16163 (2007) Radulovic,S., J BUON 12 SUPPL 1, S151-S162 (2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826730
NCBI GeneID	2475
NCBI Accession #	NP_004949.1
NCBI GenBank Nucleotide #	NM_004958.3
UniProt Accession #	P42345; Q4LE76; Q5TER1; Q6LE87; Q96QG3; Q9Y4I3
Molecular Weight	288892
NCBI Official Full Name	serine/threonine-protein kinase mTOR
NCBI Official Synonym Full Names	mechanistic target of rapamycin (serine/threonine kinase)
NCBI Official Symbol	MTOR
NCBI Official Synonym Symbols	FRAP; FRAP1; FRAP2; RAFT1; RAPT1
NCBI Protein Information	serine/threonine-protein kinase mTOR
UniProt Protein Name	Serine/threonine-protein kinase mTOR
UniProt Gene Name	MTOR
UniProt Synonym Gene Names	FRAP; FRAP1; FRAP2; RAFT1; RAPT1; mTOR
UniProt Entry Name	MTOR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.