

Rabbit anti-Human mTOR Polyclonal Antibody | anti-mTOR antibody

Rabbit anti-mTOR Antibody, Affinity Purified

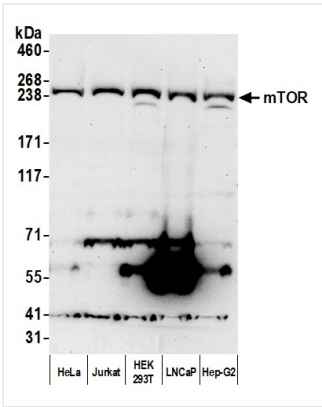
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA210988	Rabbit	Human	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

mTOR; Polyclonal Antibody; Rabbit anti-mTOR Antibody; Affinity Purified; Mechanistic target of rapamycin; serine/threonine-protein kinase mTOR; rapamycin associated protein FRAP2; rapamycin target protein 1; SKS; rapamycin and FKBP12 target 1; RAFT1; mechanistic target of rapamycin (serine/threonine kinase); FRAP2; FRAP1; FRAP; FKBP-rapamycin associated protein; FKBP12-rapamycin complex-associated protein 1; FKBP12-rapamycin complex-associated protein; FK506-binding protein 12-rapamycin complex-associated protein 1; FK506 binding protein 12-rapamycin associated protein 2; mammalian target of rapamycin; RAPT1; Serine/threonine-protein kinase mTOR; mechanistic target of rapamycin kinase; anti-mTOR antibody

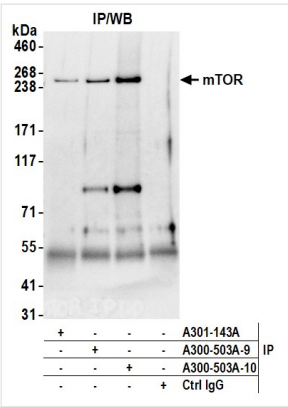
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-mTOR antibody	IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Mouse, Rat
Immunogen	Between 225 and 275
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



WB (Western Blot)

Detection of human mTOR by western blot. Samples: Whole cell lysate (50 ug) from HeLa, Jurkat, HEK293T, LNCaP, and Hep-G2 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-mTOR antibody (AAA210988 lot 10) used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



IP (Immunoprecipitation)

Detection of human mTOR by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-mTOR antibody (AAA210988 lot 10) used for IP at 6 ug per reaction. mTOR was also immunoprecipitated by a previous lot of this antibody (AAA210988 lot 9) and a second antibody against a different epitope of mTOR . For blotting immunoprecipitated mTOR, AAA210988 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL INFORMATION

Related Product Information for anti-mTOR antibody	Studies of the mammalian target of rapamycin (mTOR) and its homologs demonstrate a role in integrating signals from growth factors, nutrients, stress, and cellular energy levels to control cell growth, translation initiation, ribosome biogenesis, and transcription factor localization. mTOR is the direct target of the cell cycle arresting activity of rapamycin. mTOR interacts with Raptor or Rictor to form the mTORC1 and mTORC2 complexes respectively. The mTORC1 complex also includes mLst8/GbetaL and functions to phosphorylate S6K and 4EBP1. The mTORC2 complex also includes mLst8/GbetaL, mSIN1 and protor-1 and functions to phosphorylate Akt.
Product Categories/Family for anti-mTOR antibody	Primary Antibodies

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	288,892 Da
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; rapamycin target protein 1; mammalian target of rapamycin; rapamycin and FKBP12 target 1; FKBP-rapamycin associated protein; rapamycin associated protein FRAP2; FKBP12-rapamycin complex-associated protein 1; FK506 bin
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mtor-antibody-immunoprecipitation-western-blot-elisa/210988>