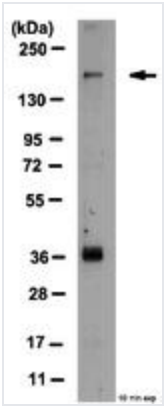
Raptor (RPTOR) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Raptor (RPTOR), Polyclonal Antibody
Full Product Name	Raptor, Phosphorylated (Ser877) (Regulatory Associated Protein of mTOR, p150 Target of Rapamycin (TOR) Scaffold Protein containing WD-repeats, KIAA1303) (FITC)
Product Gene Name	anti-RPTOR antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human Raptor phosphorylated at Ser877. Sequence homology (100%): primate, monkey. Sequence homology (90%): mouse, rat.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	150
OMIM	AY090663 mRNA
3D Structure	ModBase 3D Structure for Q8N122
Immunogen	Synthetic peptide corresponding to human Raptor phosphorylated at and around Ser877.
Conjugate	FITC
Positive Control	Jurkat cell lysate.
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-RPTOR antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-RPTOR antibody	Western Blot (WB)
Application Notes for anti-RPTOR antibody	WB: 1:250 Applications are based on unconjugated antibody.
Related Product Information for anti-RPTOR antibody	MBS6496978 is an antibody targeting RPTOR. Also known as Raptor, Phosphorylated (Ser877) (Regulatory Associated Protein of mTOR, p150 Target of Rapamycin (TOR) Scaffold Protein containing WD-repeats, KIAA1303) (FITC). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-RPTOR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-RPTOR antibody
Western Blot Analysis: Representative lot data. Jurkat cell lysate was resolved by electrophoresis, transferred to PVDF membranes and probed withMBS623027. (1:250 dilution). Proteins were visualized using a Donkey Anti-Rabbit IgG conjugated to HRP using a chemiluminescence detection system. Arrow indicates Raptor (~150kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPTOR. It may not necessarily be applicable to this product.

NCBI GI #	22094987
NCBI GeneID	57521
NCBI Accession #	NP_065812
UniProt Primary Accession #	Q8N122
UniProt Related Accession #	Q8N122
GenBank Nucleotide #	NP_065812.1
NCBI Official Full Name	regulatory-associated protein of mTOR isoform 1
NCBI Official Synonym Full Names	regulatory associated protein of MTOR complex 1
NCBI Official Symbol	RPTOR
NCBI Official Synonym Symbols	KOG1; Mip1
UniProt Protein Name	Regulatory-associated protein of mTOR
UniProt Synonym Protein Names	p150 target of rapamycin (TOR)-scaffold protein
Protein Family	Regulatory-associated protein
UniProt Gene Name	RPTOR
UniProt Synonym Gene Names	KIAA1303; RAPTOR; Raptor
NCBI Protein Information	regulatory-associated protein of mTOR
NCBI Summary for RPTOR	This gene encodes a component of a signaling pathway that regulates cell growth in response to nutrient and insulin levels. The encoded protein forms a stoichiometric complex with the mTOR kinase, and also associates with eukaryotic initiation factor 4E-binding protein-1 and ribosomal protein S6 kinase. The protein positively regulates the downstream effector ribosomal protein S6 kinase, and negatively regulates the mTOR kinase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

UniProt Comments for RPTOR	Involved in the control of the mammalian target of rapamycin complex 1 (mTORC1) activity which regulates cell growth and survival, and autophagy in response to nutrient and hormonal signals; functions as a scaffold for recruiting mTORC1 substrates. mTORC1 is activated in response to growth factors or amino acids. Growth factor-stimulated mTORC1 activation involves a AKT1-mediated phosphorylation of TSC1-TSC2, which leads to the activation of the RHEB GTPase that potently activates the protein kinase activity of mTORC1. Amino acid-signaling to mTORC1 requires its relocalization to the lysosomes mediated by the Ragulator complex and the Rag GTPases. Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eiF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389', which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for degradation. Involved in ciliogenesis.
Research Articles on RPTOR	**1.** The Raptor alpha-solenoid directly detects the nucleotide state of RagA while the Raptor "claw" threads between the GTPase domains to detect that of RagC. Mutations that disrupted Rag-Raptor binding inhibited mTORC1 lysosomal localization and signaling.
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