

Recombinant Human RPTOR

Cat. No. RPTOR-30506TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Raptor with proprietary tag; Predicted MWt 67.76 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	379 amino acids
Description	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.
Molecular Weight	67.760kDa inclusive of tags
Tissue specificity	Highly expressed in skeletal muscle, and in a lesser extent in brain, lung, small intestine, kidney and placenta.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MESEMLQSPLLGLGEEDEADLTDWNLPLAFMKKRHCEKIEGSKSLAQSWRMKDRM KTVSVALVLCLNVGVDPPDVVKTTPCARLECWIDPLSMGPQKALETIGANLQKQYEN WQPRARYKQSLDPTVDEVKKLCTSLRRNAKEERVLFHYNGHGVPRPTVNGEVWVF NKNYTQYIPLSIYDLQTWMGSPSIFVYDCSNAGLIVKSFKQFALQREQELEVAAINPN HPLAQMPLPPSMKNCIQLAACEATELLPMIPDLPADLFTSCLTTPIKIALRWFCMQKC VSLVPGVTLDLIEKIPGRLNDRRTPLGELNWIFTAITDTIAWNVLPRDLFQKLFRQDLL VASLFRNFLAERIMRSYNCTPVSSPRLPPTYMHAMW
Sequence Similarities	Belongs to the WD repeat RAPTOR family.Contains 7 WD repeats.

GENE INFORMATION

Gene Name	RPTOR regulatory associated protein of MTOR, complex 1 [Homo sapiens]
Official Symbol	RPTOR
Synonyms	RPTOR; regulatory associated protein of MTOR, complex 1; regulatory-associated protein of mTOR; KIAA1303; KOG1; Mip1; raptor; regulatory associated protein of mTOR;
Gene ID	57521
mRNA Refseq	NM_001163034
Protein Refseq	NP_001156506

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MIM	607130
Uniprot ID	Q8N122
Chromosome Location	17q25.3
Pathway	AMPK signaling, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;
Function	14-3-3 protein binding; RNA polymerase III type 1 promoter DNA binding; RNA polymerase III type 2 promoter DNA binding; RNA polymerase III type 3 promoter DNA binding; TFIIIC-class transcription factor binding;

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