

Recombinant Human RPTOR Protein, His-tagged

Cat. No. RPTOR-2666H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RPTOR Protein (Asn1020-Arg1335) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn1020-Arg1335
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.1 kDa Accurate Molecular Mass: 37 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	RPTOR regulatory associated protein of MTOR, complex 1 [Homo sapiens (human)]
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; p150 target of rapamycin (TOR)-scaffold protein containing WD-repeats;
Gene ID	57521
mRNA Refseq	NM_001163034
Protein Refseq	NP_001156506

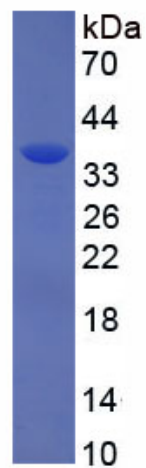
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MIM 607130

UniProt ID Q8N122



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