

Active Recombinant Human MTOR/RPTOR/MLST8 protein, FLAG/His-tagged

Cat. No. MTOR-42H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MTOR(1362–end)/RPTOR(2–326 aa)/MLST8(2–1335 aa) fused with N-terminal FLAG-tag (mTOR), N-terminal His-tag (MLST8), N-terminal His-tag (Raptor) was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1362-end;2-326;2-1335 a.a.
Description	Complex of human mTOR, also known as FRAP1 (GenBank Accession No. NM_004958), a.a. 1362-end, with N-terminal FLAG-tag, MW = 137 kDa, human MLST8 (GenBank Accession No. NM_022372), a.a. 2-326 (end) with N-terminal His-tag, MW = 37 kDa, and human Raptor (GenBank Accession No. NM_020761), a.a. 2-1335 (end) with N-terminal Histag, MW=150 kDa, co-expressed in a Baculovirus-infected Sf9 cell expression system.
Form	45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM KCl, 10% glycerol, and 0.18 mg/ml FLAG peptide
Bio-activity	7.1 pmol/min/g
Molecular Mass	324 kDa

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Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Storage	>6 months at -80 centigrade. Avoid freeze/thaw cycles.
Concentration	0.27 mg/ml
GENE INFORMATION	
Gene Name	MTOR mechanistic target of rapamycin (serine/threonine kinase) [Homo sapiens]
Official Symbol	MTOR
Synonyms	MTOR; mechanistic target of rapamycin (serine/threonine kinase); FK506 binding protein 12 rapamycin associated protein 1 , FRAP, FRAP1, FRAP2; serine/threonine-protein kinase mTOR; dJ576K7.1 (FK506 binding protein 12 rapamycin associated protein 1); FK506 binding protein 12 rapamycin associated protein 2
Gene ID	2475
mRNA Refseq	NM_004958
Protein Refseq	NP_004949
MIM	601231
UniProt ID	P42345
Chromosome Location	1p36
Pathway	AMPK signaling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune

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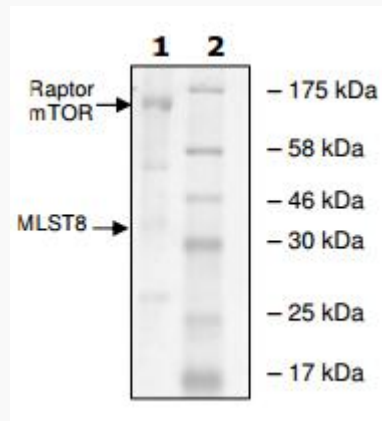
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System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem;

Function

ATP 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; kinase activity; kinase activity; nucleotide binding;



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