

Recombinant Mouse Mtor Protein, His-tagged

Cat. No. Mtor-1798M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Mtor Protein (Ala2226-Val2488) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ala2226-Val2488
Description	Enables protein serine/threonine kinase activity and ribosome binding activity. Involved in several processes, including 'de novo' pyrimidine nucleobase biosynthetic process; T-helper 1 cell lineage commitment; and neuronal action potential. Acts upstream of or within several processes, including heart development; positive regulation of cellular component biogenesis; and regulation of protein phosphorylation. Located in cytosol; dendrite; and nucleus. Part of TORC1 complex. Colocalizes with PML body. Is expressed in central nervous system; early conceptus; oocyte; respiratory system; and retina. Human ortholog(s) of this gene implicated in autosomal dominant polycystic kidney disease; kidney angiomyolipoma; lung disease (multiple); prostate cancer; and type 2 diabetes mellitus. Orthologous to human MTOR (mechanistic target of rapamycin kinase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.4 kDa Accurate Molecular Mass: 33 kDa

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Purity	> 90%
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	Mtor mechanistic target of rapamycin (serine/threonine kinase) [<i>Mus musculus</i> (house mouse)]
Official Symbol	Mtor
Synonyms	MTOR; mechanistic target of rapamycin (serine/threonine kinase); serine/threonine-protein kinase mTOR; rapamycin target protein 1; angiopoietin-like factor CDT6; mammalian target of rapamycin; FKBP-rapamycin-associated protein FRAP; FKBP-rapamycin associated protein (FRAP); FKBP12-rapamycin complex-associated protein; FK506 binding protein 12-rapamycin associated protein 1; FK506-binding protein 12-rapamycin complex-associated protein 1; FRAP; flat; FRAP2; Frap1;

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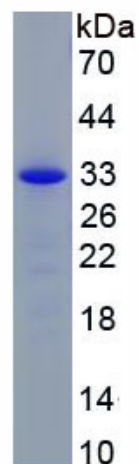
RAFT1; RAPT1; AI327068; 2610315D21Rik; MGC118056;

Gene ID 56717

mRNA Refseq NM_020009

Protein Refseq NP_064393

UniProt ID Q9JLN9



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