

## Recombinant Mouse Mtor Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Mtor Protein (Ala2226-Val2488) with N-His tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala2226-Val2488
<b>Description</b>	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).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 33.4 kDa Accurate Molecular Mass: 33 kDa

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<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

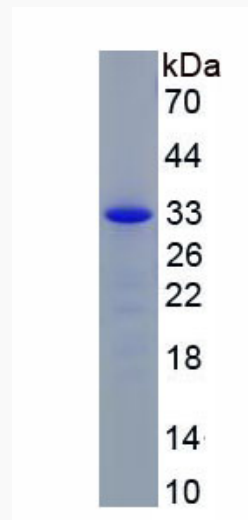
<b>Gene Name</b>	Mtor mechanistic target of rapamycin (serine/threonine kinase) [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Mtor
<b>Synonyms</b>	MTOR; mechanistic target of rapamycin (serine/threonine kinase); serine/threonine-protein kinase mTOR; rapamycin target protein 1; angiopoietin-like 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 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA