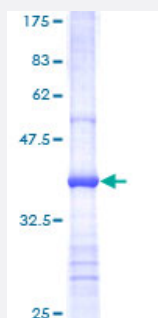


MTOR (Human) Recombinant Protein (Q01)

Catalog # H00002475-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MTOR partial ORF (NP_004949, 1521 a.a. - 1620 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	WGLGQWDSMEEYTCMIPRDTHDGAFYRAVLALHQDLFSLAQQCIDKARDLLDAELTAMAGESYS RAYGAMV SCHMLSELEEVIQYKLVPERREIRQIWW
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MTOR

Entrez GeneID [2475](#)

GeneBank Accession# [NM_004958](#)

Protein Accession# [NP_004949](#)

Gene Name MTOR

Gene Alias FRAP, FRAP1, FRAP2, RAFT1, RAPT1

Gene Description mechanistic target of rapamycin

Omim ID [601231](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene. [provided by RefSeq]

Other Designations FK506 binding protein 12-rapamycin associated protein 1|FK506 binding protein 12-rapamycin associated protein 2|FK506-binding protein 12-rapamycin complex-associated protein 1|FKBP-rapamycin associated protein|FKBP12-rapamycin complex-associated protein 1

Publication Reference

- [Periodontal disease level-butyric acid putatively contributes to the ageing blood: A proposed link between periodontal diseases and the ageing process.](#)

Cueno ME, Seki K, Ochiai K, Imai K.

Mechanisms of Ageing and Development 2017 Mar; 162:100.

Application: ELISA, Rat, Rat blood

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [ErbB signaling pathway](#)
- [Glioma](#)
- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Type II diabetes mellitus](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Colonic Neoplasms](#)
- [Diabetes Complications](#)
- [Esophageal Neoplasms](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)

- [Neoplasms](#)
- [Osteoporosis](#)
- [Rectal Neoplasms](#)
- [Tobacco Use Disorder](#)