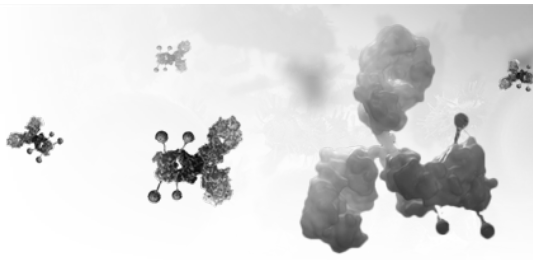

MTOR peptide (DAG-P1797)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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, Sep 2008]
Specificity	Expressed in numerous tissues, with highest levels in testis.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the PI3/PI4-kinase family.Contains 1 FAT domain.Contains 1 FATC domain.Contains 7 HEAT repeats.Contains 1 PI3K/PI4K domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	MTOR mechanistic target of rapamycin (serine/threonine kinase) [Homo sapiens (human)]
Official Symbol	MTOR
Synonyms	MTOR; mechanistic target of rapamycin (serine/threonine kinase); FRAP; FRAP1; FRAP2; RAFT1; RAPT1; serine/threonine-protein kinase mTOR; rapamycin target protein 1; mammalian target of rapamycin; rapamycin and FKBP12 target 1; FKBP-rapamycin associated protein; rapamycin associated protein FRAP2; FKBP12-rapamycin complex-associated protein 1; FK506 binding protein 12-rapamycin associated protein 2; FK506-binding protein 12-

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	rapamycin complex-associated protein 1;
Entrez Gene ID	2475
mRNA Refseq	NM_004958.3
Protein Refseq	NP_004949.1
UniProt ID	P42345
Chromosome Location	1p36.2
Pathway	AMPK signaling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; BDNF signaling pathway, organism-specific biosystem; CD28 co-stimulation, organism-specific biosystem; CD28 dependent
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; drug binding; kinase activity; kinase activity; phospho

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