

Regulator complex protein LAMTOR1 (LAMTOR1) Recombinant Protein | LAMTOR1 recombinant protein

Recombinant Human Regulator complex protein LAMTOR1 (LAMTOR1)

CATALOG # AAA117487	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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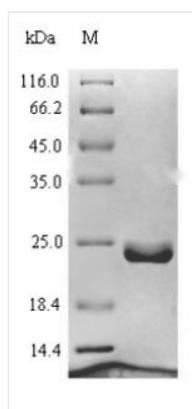
PRODUCT SYNONYMS

Regulator complex protein LAMTOR1 (LAMTOR1); Recombinant Human Regulator complex protein LAMTOR1 (LAMTOR1); Late endosomal/lysosomal adaptor and MAPK and MTOR activator 1; Lipid raft adaptor protein p18; Protein associated with DRMs and endosomes; p27Kip1-releasing factor from RhoA; p27RF-Rho; LAMTOR1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-161. Full Length of Mature Protein
Sequence	GCCYSS ENED SDQDREERKL LLDPPSPPTK ALNGAEPNYH SLPSARTDEQ ALLSSILAKT ASNIIDVSAA DSQGMEQHEY MDRARQYSTR LAVLSSSLTH WKKLPPLPSL TSQPHQVLAS EPIPFSDLQQ VSRIAAYAYS ALSQIRVDAK EELVVQFGIP
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for LAMTOR1 recombinant protein	As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. LAMTOR1 is directly responsible for anchoring the Ragulator complex to membranes. Also required for late endosomes/lysosomes biogenesis it may regulate both the recycling of receptors through endosomes and the MAPK signaling pathway through recruitment of some of its components to late endosomes. May be involved in cholesterol homeostasis regulating LDL uptake and cholesterol release from late endosomes/lysosomes. May also play a role in RHOA activation.
Product Categories/Family for LAMTOR1 recombinant protein	Metabolism
References	"Large-scale cDNA transfection screening for genes related to cancer development and progression." Wan D., Gong Y., Qin W., Zhang P., Li J., Wei L., Zhou X., Li H., Qiu X., Zhong F., He L., Yu J., Yao G., Jiang H., Qian L., Yu Y., Shu H., Chen X. Gu J. Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923579
NCBI GeneID	55004
NCBI Accession #	NP_060377.1
NCBI GenBank Nucleotide #	NM_017907.2
UniProt Accession #	Q6IAA8; Q8WZ09; Q9NWT0
Molecular Weight	21.6 kDa
NCBI Official Full Name	ragulator complex protein LAMTOR1
NCBI Official Synonym Full Names	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
NCBI Official Symbol	LAMTOR1
NCBI Official Synonym Symbols	p18; PDRO; C11orf59; p27RF-Rho; Ragulator1
NCBI Protein Information	ragulator complex protein LAMTOR1
UniProt Protein Name	Ragulator complex protein LAMTOR1
UniProt Gene Name	LAMTOR1
UniProt Synonym Gene Names	C11orf59; PDRO; p27RF-Rho
UniProt Entry Name	LTOR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/lamtor1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117487>