

Recombinant Human LAMTOR1 Protein (2-161 aa), His-tagged

Cat. No. LAMTOR1-2000H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LAMTOR1 Protein (2-161 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length of Mature Protein.
Species	Human
Source	E.coli
ProteinLength	2-161 aa
Description	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.
Form	Tris-based buffer, 50% glycerol

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Molecular Mass	21.7 kDa
AA Sequence	GCCYSSNEDSDQDREERKLLLDPSSPPTKALNGAEPNYHSLPSARTDEQALLSSIL AKTASNIIDVSAADSQGMQHEYMMDRARQYSTRRLAVLSSSLTHWKKLPPLPSLTSQP HQVLASEPIPFSDLQQVSRIAAYAYSALSQIRVDAKEELVVQFGIP
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	LAMTOR1 late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Homo sapiens]
Official Symbol	LAMTOR1
Synonyms	p18; PDRO; C11orf59; p27RF-Rho; Ragulator1;
Gene ID	55004
mRNA Refseq	NM_017907.2

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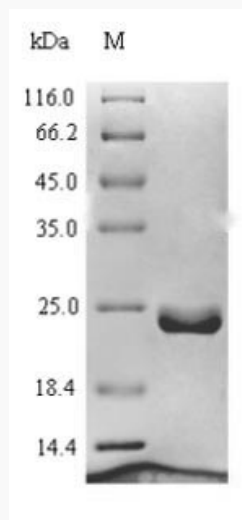
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Protein Refseq NP_060377.1

MIM 613510

UniProt ID Q6IAA8



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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