

Recombinant Human LAMTOR3, His-tagged

Cat. No. LAMTOR3-28221TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MAP2K1IP1 (amino acids 1-124) with N terminal His tag; 144 amino acids with tag, MWt 15.8 kDa.
Species	Human
Source	E.coli
ProteinLength	124 amino acids
Description	This gene encodes a scaffold protein that functions in the extracellular signal-regulated kinase (ERK) cascade. The protein is localized to late endosomes by the mitogen-activated protein-binding protein-interacting protein, and binds specifically to MAP kinase kinase MAP2K1/MEK1, MAP kinase MAPK3/ERK1, and MAP kinase MAPK1/ERK2. Studies of the orthologous gene in mouse indicate that it regulates late endosomal traffic and cell proliferation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 13.
Conjugation	HIS
Molecular Weight	15.800kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 5mM DTT, 20mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMADDLKRFLYKKLPSVEGLHAIVVSDRDGVPVIKVA NDNAPEHALRPGFLSTFALATDQGSKLGLSKNKSIIICYNTYQVVQFNRLPLVVSFIA SSSANTGLIVSLEKELAPLFEELRQVVEVS

GENE INFORMATION

Gene Name	LAMTOR3 late endosomal/lysosomal adaptor, MAPK and MTOR activator 3 [Homo sapiens]
Official Symbol	LAMTOR3
Synonyms	LAMTOR3; late endosomal/lysosomal adaptor, MAPK and MTOR activator 3; MAP2K1IP1, MAPK scaffold protein 1 , MAPKSP1, mitogen activated protein kinase kinase 1 interacting protein 1; regulator complex protein LAMTOR3; MAPBP; MEK partner 1; MP1; Ragulator3
Gene ID	8649
mRNA Refseq	NM_001243736
Protein Refseq	NP_001230665
MIM	603296
Uniprot ID	Q9UHA4

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Chromosome Location	4q24-q26
Pathway	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem;
Function	protein binding;

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