

Recombinant Mouse Lamtor2 Protein, Myc/DDK-tagged

Cat. No. Lamtor2-3750M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length late endosomal/lysosomal adaptor, MAPK and MTOR activator 2 (Lamtor2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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. Adapter protein that enhances the efficiency of the MAP kinase cascade facilitating the activation of MAPK2.
Molecular Mass	13.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Lamtor2 late endosomal/lysosomal adaptor, MAPK and MTOR activator 2 [Mus musculus (house mouse)]

Official Symbol Lamtor2

Synonyms LAMTOR2; late endosomal/lysosomal adaptor, MAPK and MTOR activator 2; ragulator complex protein LAMTOR2; endosomal adaptor protein p14; roadblock domain containing 3; roadblock domain-containing protein 3; late endosomal/lysosomal MP1 interacting protein; late endosomal/lysosomal Mp1-interacting protein; mitogen activated protein binding protein interacting protein; mitogen-activated protein binding protein interacting protein; mitogen-activated protein-binding protein-interacting protein; late endosomal/lysosomal adaptor and MAPK and MTOR activator 2; P14; Rab25; Robld3; Mapbpip; AL022628; 2010111E04Rik

Gene ID 83409

mRNA Refseq NM_031248

Protein Refseq NP_112538

UniProt ID Q9JHS3

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