

A Reliable Research Partner in Life Science and Medicine

LAMTOR1 Polyclonal Antibody

catalog number: E-AB-92391

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human

Immunogen Recombinant fusion protein of human LAMTOR1

Host Rabbit Isotype IgG

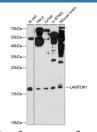
Purification Affinity purification

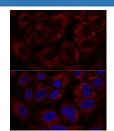
Buffer Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

Applications Recommended Dilution

WB 1:500-1:2000 **IF** 1:50-1:200

Data





Confocal immunofluorescence analysis of U2OS cells using

Western blot analysis of extracts of various cell lines using LAMTOR1 Polyclonal Antibody at 1:3000 dilution.

LAMTOR1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

Observed-MV:Refer to figures

Calculated-MV:17 kDa

Preparation & Storage

Storage Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping The product is shipped with ice pack, upon receipt, store it immediately at the

temperature recommended.

Background

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.

For Research Use Only

Toll-free: 1-888-852-8623 Web:www.elabscience.com

Tel: 1-832-243-6086 Email:techsupport@elabscience.com