

LAMTOR1 polyclonal antibody

Catalog: BS71562

Host: Rabbit

Reactivity: Human, Mouse, Rat

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.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

18kDa

Swiss-Prot:

Q6IAA8

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB,1:500 - 1:1000|IHC,1:50 - 1:100|IF/ICC,1:50 - 1:100

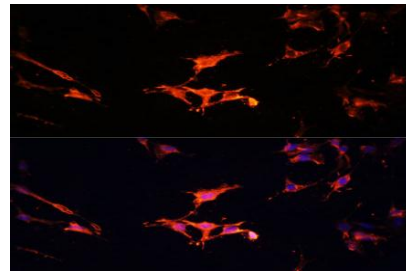
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

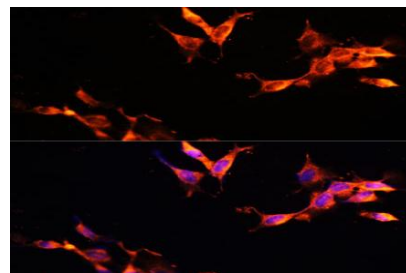
Category:

Polyclonal Antibodies

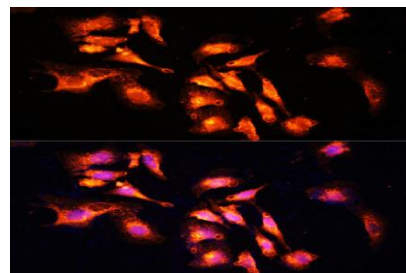
DATA:



Immunofluorescence analysis of C6 cells using LAMTOR1 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH-3T3 cells using LAMTOR1 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using LAMTOR1 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.

Note:

For research use only, not for use in diagnostic procedure.

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