

Rabbit anti-Human LAMTOR1 Polyclonal Antibody | anti-LAMTOR1 antibody

LAMTOR1 Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282283	Rabbit	Human	Immunocytochemistry, Immunofluorescence, Western Blot

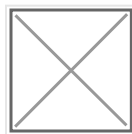
PRODUCT SYNONYMS

LAMTOR1; Polyclonal Antibody; LAMTOR1 Rabbit pAb; C11orf59; PDRO; Ragulator1; p18; p27RF-Rho; ragulator complex protein LAMTOR1; anti-LAMTOR1 antibody

PRODUCT SPECIFICATIONS

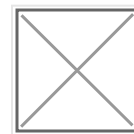
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Sequence	KHSLPDLPYD YGALEPHINA QIMQLHHSKH HAAYVNNLV TEEKYQEALA KGDVTAQIAL QPALKFNGGG HINHSIFWTN LSPNGGGEPK GELLEAIKRD FGSFDKFKEK LTAASVGVQG SGWGWLGFNK ERGHLQIAAC PNQDPLQGTG GLIPLLGIDV WEHAYYLQYK NVRPDYLKAI WNVINWENV T ERYMACKK
Applicable Applications for anti-LAMTOR1 antibody	ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-161 of human LAMTOR1 (NP_060377.1).
Cellular Location	Cell membrane, Cytoplasmic side, Late endosome membrane, Lipid-anchor, Lysosome membrane
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Confocal immunofluorescence analysis of U2OS cells using LAMTOR1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using LAMTOR1 antibody at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Enhanced Kit.Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-LAMTOR1 antibody	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 Categories/Family for anti-LAMTOR1 antibody	Signal Transduction; Kinase; PI3K-Akt Signaling Pathway; Cell Biology & Developmental Biology; Autophagy; Endocrine & Metabolism; Lipid Metabolism; Cholesterol Metabolism; Cardiovascular; Lipids; Regulator of mTOR complex function; Regulators; Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	134665
NCBI GeneID	6648
UniProt Accession #	P04179; P78434; Q16792; Q5TCM1; Q96EE6; Q9P2Z3; B2R7R1; B3KUK2; B4DL20; B4E3K9; E1P5A9
Molecular Weight	222
NCBI Official Full Name	Superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 2, mitochondrial
NCBI Official Symbol	SOD2
NCBI Official Synonym Symbols	IPOB; MNSOD; MVCD6
NCBI Protein Information	superoxide dismutase [Mn], mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase
UniProt Protein Name	Superoxide dismutase [Mn], mitochondrial
UniProt Gene Name	SOD2
UniProt Entry Name	SODM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lamtor1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282283>