

Rabbit LAMTOR1 Polyclonal Antibody | anti-LAMTOR1 antibody

Anti-LAMTOR1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126457	Rabbit	Human, Rat, Monkey	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

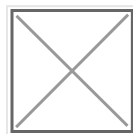
PRODUCT SYNONYMS

LAMTOR1; Polyclonal Antibody; Anti-LAMTOR1 Antibody Picoband; anti-LAMTOR1 antibody

PRODUCT SPECIFICATIONS

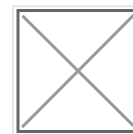
Host	Rabbit
Reactivity	Human, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-LAMTOR1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human LAMTOR1 recombinant protein (Position: K31-P161).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-LAMTOR1 antibody (AAA126457). Overlay histogram showing JK cells stained with AAA126457 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LAMTOR1 Antibody (AAA126457, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of LAMTOR1 using anti-LAMTOR1 antibody (AAA126457). LAMTOR1 was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-LAMTOR1 Antibody (AAA126457) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of LAMTOR1 using anti-LAMTOR1 antibody (AAA126457). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: monkey COS-7 whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: rat lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LAMTOR1 antigen affinity purified polyclonal antibody (#AAA126457) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LAMTOR1 at approximately 18 kDa. The expected band size for LAMTOR1 is at 18 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-LAMTOR1 antibody	Late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 is a protein that in humans is encoded by the LAMTOR1 gene. mTORC1 kinase complex is a critical component in the regulation of cell growth. Its activity is modulated by energy levels, growth factors, and amino acids. The four related GTPases, RagA, RagB, RagC, and RagD, have been shown to interact with raptor in mTORC1. These interactions are both necessary and sufficient for mTORC1 activation in response to amino acid signals. A protein complex consisting of LAMTOR1/C11orf59, LAMTOR2/ROBLD3, and LAMTOR3/MAPKSP1 has been identified to interact with and recruit the four Rag GTPases to the surface of lysosomes.
Product Categories/Family for anti-LAMTOR1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923579
NCBI GeneID	55004
NCBI Accession #	NP_060377
NCBI GenBank Nucleotide #	NM_017907.2
UniProt Accession #	Q6IAA8; Q8WZ09; Q9NWT0
Molecular Weight	Predicted: 18 kDa Observed: 18 kDa
NCBI Official Full Name	regulator complex protein LAMTOR1
NCBI Official Synonym Full Names	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
NCBI Official Symbol	LAMTOR1
NCBI Official Synonym Symbols	p18; PDRO; C11orf59; p27RF-Rho; Ragulator1
NCBI Protein Information	regulator complex protein LAMTOR1; RhoA activator C11orf59; lipid raft adaptor protein p18; regulator complex protein PDRO; p27Kip1-releasing factor from RhoA; p27kip1 releasing factor from RhoA; protein associated with DRMs and endosomes; late endosomal/
UniProt Protein Name	Ragulator complex protein LAMTOR1
UniProt Gene Name	LAMTOR1
UniProt Synonym Gene Names	C11orf59; PDRO; p27RF-Rho
UniProt Entry Name	LTOR1_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-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126457>