

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

LAMTOR1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA234836	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA

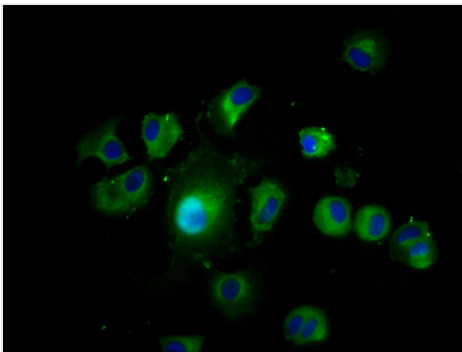
PRODUCT SYNONYMS

LAMTOR1; Polyclonal Antibody; LAMTOR1 Antibody; Ragulator complex protein LAMTOR1; Late endosomal/lysosomal adaptor and MAPK and MTOR activator 1; Lipid raft adaptor protein p18; Protein associated with DRMs and endosomes; p27Kip1-releasing factor from RhoA; p27RF-Rho; C11orf59; PDRO; PP7157; anti-LAMTOR1 antibody

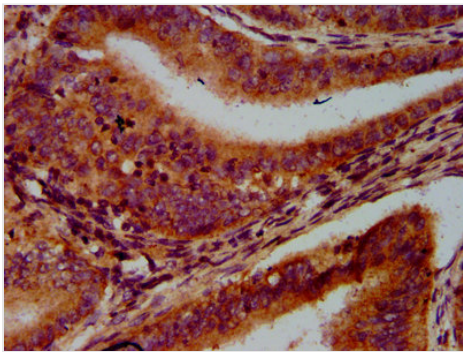
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	161
Applicable Applications for anti-LAMTOR1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Ragulator complex protein LAMTOR1 protein (2-161AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of MCF-7 cells with AAA234836 at 1:200, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



IHC (Immunohistochemistry)
IHC image of AAA234836 diluted at 1:600 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

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	Cardiovascular ; Metabolism ; Signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923579
NCBI GeneID	55004
NCBI Accession #	NP_060377.1
NCBI GenBank Nucleotide #	NM_017907.2
UniProt Accession #	Q6IAA8 ; Q8WZ09 ; Q9NWT0
Molecular Weight	17,745 Da
NCBI Official Full Name	ragulator 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	ragulator complex protein LAMTOR1
UniProt Protein Name	Ragulator complex protein LAMTOR1
UniProt Gene Name	LAMTOR1
UniProt Synonym Gene Names	C11orf59; PDRO; p27RF-Rho

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-immunofluorescence-immunohistochemistry-elisa/234836>