

Rabbit LAPTM4B Polyclonal Antibody | anti-LAPTM4B antibody

LAPTM4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323240	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

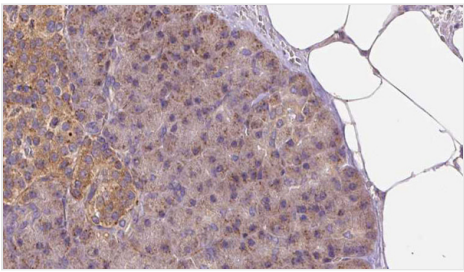
PRODUCT SYNONYMS

LAPTM4B; Polyclonal Antibody; LAPTM4B Antibody; LAPTM4beta; LC27; Lysosomal associated protein transmembrane 4 beta; Lysosomal associated transmembrane protein 4 beta; Lysosomal associated transmembrane protein 4B; Lysosomal protein transmembrane 4 beta; anti-LAPTM4B antibody

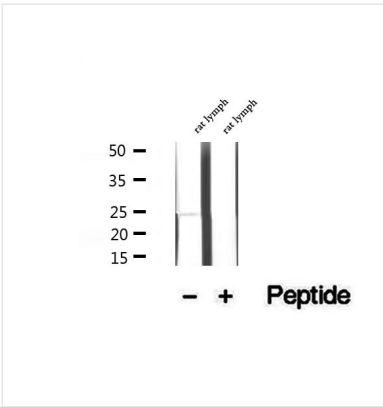
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LAPTM4B antibody detects endogenous levels of LAPTM4B.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	317
Applicable Applications for anti-LAPTM4B antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LAPTM4B.
Subcellular Location	Endomembrane System; Multipass Membrane Protein.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA323240 at 1/100 staining Human pancreas cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of rat lymph tissue, using LAPTM4B antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-LAPTM4B antibody	Function: Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4, 5-bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves LAPTM4B inhibition of EGFR degradation (PubMed:25588945). Recruits SLC3A2 and SLC7A5 (the Leu transporter) to the lysosome, promoting entry of leucine and other essential amino acid (EAA) into the lysosome, stimulating activation of proton-transporting vacuolar (V)-ATPase protein pump (V-ATPase) and hence mTORC1 activation (PubMed:25998567). Plays a role as negative regulator of TGFB1 production in regulatory T cells (PubMed:26126825). Binds ceramide and facilitates its exit from late endosome in order to control cell death pathways (PubMed:26280656). Subunit Structure: Homooligomer; upon reaching the lysosomes (PubMed:21224396). Interacts with MCOLN1 (PubMed:21224396). Interacts with NEDD4; may play a role in the lysosomal sorting of LAPTM4B; enhances HGS association with NEDD4; mediates inhibition of EGFR degradation (PubMed:22096579, PubMed:25588945). Interacts with PIP5K1C; promotes SNX5 association with LAPTM4B; kinase activity of PIP5K1C is required; interaction is regulated by phosphatidylinositol 4, 5-bisphosphate generated by PIP5K1C (PubMed:25588945). Interacts with HGS; promotes HGS ubiquitination (PubMed:25588945). Interacts with SNX5 (PubMed:25588945). Interacts with SLC3A2 AND SLC7A5; recruits SLC3A2 and SLC7A5 to lysosomes to promote leucine uptake into these organelles and is required for mTORC1 activation (PubMed:25998567). Interacts with LRRC32; decreases TGFB1 production in regulatory T cells (PubMed:26126825). Interacts with BECN1; competes with EGFR for LAPTM4B binding; regulates EGFR activity (PubMed:28479384). Interacts with EGFR; positively correlates with EGFR activation (PubMed:28479384). Post-translational Modifications: Undergoes proteolytic cleavage following delivery to the lysosomes. Ubiquitinated by NEDD4. Similarity: Belongs to the LAPTM4/LAPTM5 transporter family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	30409982
NCBI GeneID	55353
NCBI Accession #	NP_060877.3
NCBI GenBank Nucleotide #	NM_018407.4
UniProt Accession #	Q86VI4; Q3ZCV5; Q7L909; Q86VH8; Q9H060
Molecular Weight	Observed: 24 kDa Predicted: 42 kDa
NCBI Official Full Name	lysosomal-associated transmembrane protein 4B
NCBI Official Synonym Full Names	lysosomal protein transmembrane 4 beta
NCBI Official Symbol	LAPTM4B

NCBI Official Synonym Symbols	LC27; LAPTM4beta
NCBI Protein Information	lysosomal-associated transmembrane protein 4B
UniProt Protein Name	Lysosomal-associated transmembrane protein 4B
UniProt Gene Name	LAPTM4B

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/laptm4b-antibody-immunohistochemistry-western-blot-elisa/323240>