

Rabbit anti-Human LAPTM4B Polyclonal Antibody | anti-LAPTM4B antibody

LAPTM4B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA234655	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

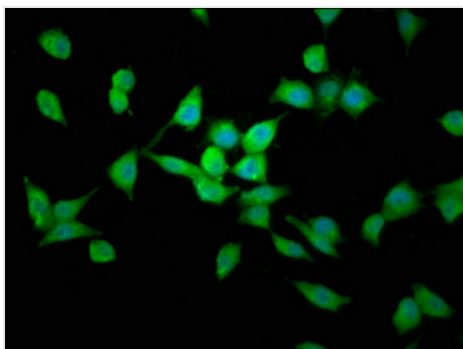
PRODUCT SYNONYMS

LAPTM4B; Polyclonal Antibody; LAPTM4B Antibody; Lysosomal-associated transmembrane protein 4B; Lysosome-associated transmembrane protein 4-beta; PSEC0001; anti-LAPTM4B antibody

PRODUCT SPECIFICATIONS

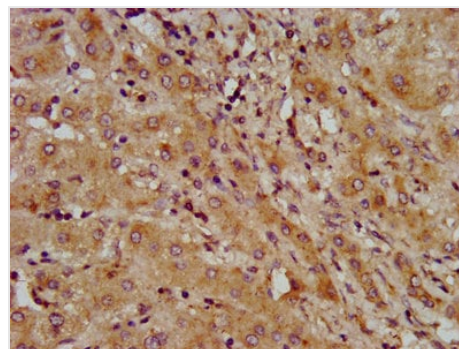
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	317
Applicable Applications for anti-LAPTM4B antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Lysosomal-associated transmembrane protein 4B protein (174-226AA)
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



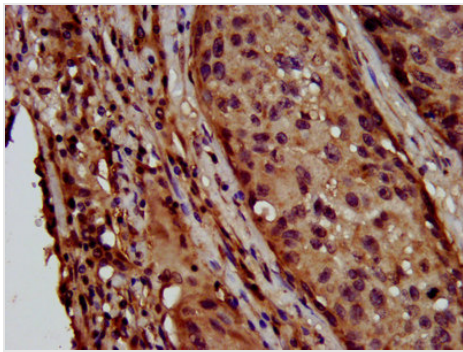
IF (Immunofluorescence)

Immunofluorescence staining of SH-SY5Y cells with AAA234655 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).



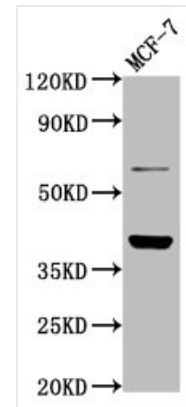
IHC (Immunohistochemistry)

IHC image of AAA234655 diluted at 1:600 and staining in paraffin-embedded human liver 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.



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WB (Western Blot)

Western Blot Positive WB detected in: MCF-7 whole cell lysate All lanes: LAPTM4B antibody at 4.8ug/ml Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 42, 26, 36 KDa Observed band size: 42 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-LAPTM4B antibody

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).

Product Categories/Family for anti-LAPTM4B antibody

Cancer

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	35,123 Da
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.

