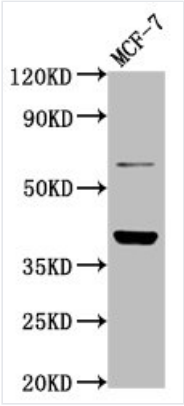
LAPTM4B Antibody – Rabbit Polyclonal

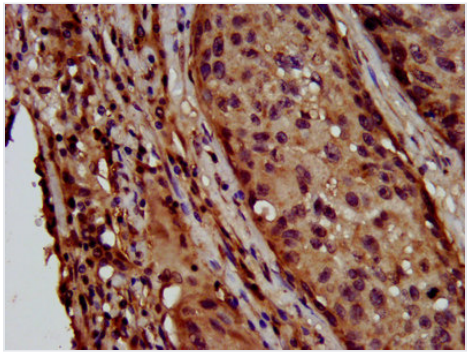
PRODUCT OVERVIEW

Product Name	LAPTM4B, Polyclonal Antibody
Full Product Name	LAPTM4B Antibody
Product Gene Name	anti-LAPTM4B antibody
Product Synonym Names	Lysosomal-associated transmembrane protein 4B; Lysosome-associated transmembrane protein 4-beta; LAPTM4B; PSEC0001
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: LAPTM4B (MBS7108363) HRP Conjugated Antibody: LAPTM4B (MBS7108364)
Matching Pairs	Unconjugated Antibody: LAPTM4B (MBS7108363) FITC Conjugated Antibody: LAPTM4B (MBS7108365)
Matching Pairs	Unconjugated Antibody: LAPTM4B (MBS7108363) Biotin Conjugated Antibody: LAPTM4B (MBS7108366)
Molecular Weight	35,123 Da
OMIM	AF527412 mRNA
3D Structure	ModBase 3D Structure for Q86VI4
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
Product Categories/Family for anti-LAPTM4B antibody	Cancer
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LAPTM4B antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-LAPTM4B antibody	WB: 1:500-1:5000 IHC: 1:500-1:1000 IF: 1:50-1:200

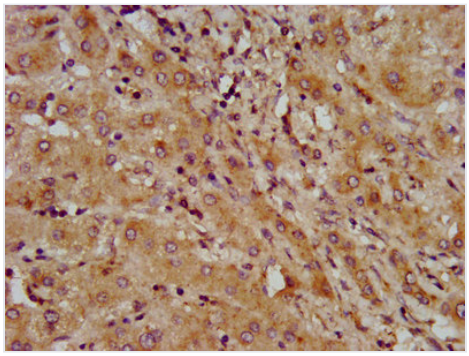
Related Product Information for anti-LAPTM4B antibody	Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4, 5-bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination 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).
Other Notes	Small volumes of anti-LAPTM4B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LAPTM4B purchase	MBS7108363 is an antibody targeting LAPTM4B. Also known as LAPTM4B Antibody. Reactive in Human. Host: Rabbit.



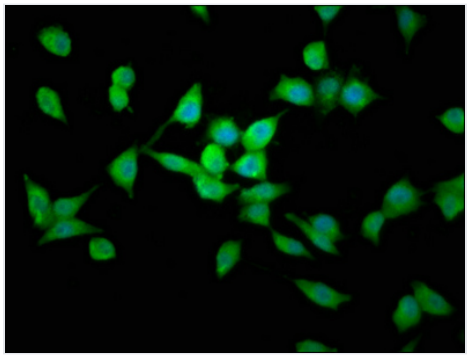
Western Blot (WB) of anti-LAPTM4B antibody
Western BlotPositive WB detected in: MCF-7 whole cell lysateAll lanes: LAPTM4B antibody at 4.8ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 42, 26, 36 KDaObserved band size: 42 KDa



Immunohistochemistry (IHC) of anti-LAPTM4B antibody
IHC image of MBS7108363 diluted at 1:600 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM 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.



Immunohistochemistry (IHC) of anti-LAPTM4B antibody
IHC image of MBS7108363 diluted at 1:600 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM 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.



Immunofluorescence (IF) of anti-LAPTM4B antibody
Immunofluorescence staining of SH-SY5Y cells with MBS7108363 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-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LAPTM4B. It may not necessarily be applicable to this product.

NCBI GI #	30409982
NCBI GeneID	55353
NCBI Accession #	NP_060877.3

UniProt Primary Accession #	Q86VI4
UniProt Secondary Accession #	Q3ZCV5; Q7L909; Q86VH8; Q9H060
UniProt Related Accession #	Q86VI4
GenBank Nucleotide #	NM_018407.4
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
UniProt Protein Name	Lysosomal-associated transmembrane protein 4B
UniProt Synonym Protein Names	Lysosome-associated transmembrane protein 4-beta
Protein Family	Lysosomal-associated transmembrane protein
UniProt Gene Name	LAPTM4B
NCBI Protein Information	lysosomal-associated transmembrane protein 4B
UniProt Comments for LAPTM4B	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).
Research Articles on LAPTM4B	**1.** The overexpressed LAPTM4B-35 was an independent prognostic biomarker for non-small-cell lung cancer, which could predict cancer recurrence and poor over survival.
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