Datasheet for ABIN7158793

anti-LAPTM4B antibody (AA 174-226) (Biotin)

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Overview

Quantity:	100 µg
Target:	LAPTM4B
Binding Specificity:	AA 174-226
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LAPTM4B antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Lysosomal-associated transmembrane protein 4B protein (174-226AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	LAPTM4B
Alternative Name:	LAPTM4B (LAPTM4B Products)
Background:	Background: Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the

Target Details

	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). Aliases: LAPTM4B antibody, PSEC0001 antibody, Lysosomal-associated transmembrane protein 4B antibody, Lysosome-associated transmembrane protein 4-beta antibody
UniProt:	Q86VI4

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.