LAPTM4B mouse mAb

Catalog No	YP-mAb-19411
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	LAPTM4B PSEC0001
Immunogen	Synthesized peptide derived from human LAPTM4B. AA range:24-124
Specificity	This antibody detects endogenous levels of LAPTM4B at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	LAPTM4B PSEC0001;Lysosomal-associated transmembrane protein 4B (Lysosome-associated transmembrane protein 4-beta)
Observed Band	
Calculated Molecular Weight	35kD
Cell Pathway	Endomembrane system ; Multi-pass membrane protein . Late endosome membrane . Cell membrane . Cell projection . Lysosome membrane . Endosome membrane. Endosome , multivesicular body membrane . Endosome , multivesicular body lumen .
Tissue Specificity	
Function	Required for optimal lysosomal function . 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 . 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 . Plays a role as negative regulator of TGFB1 production in regulatory T cells . Binds ceramide

	and facilitates its exit from late endosome in order to control cell death pathways .
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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