

Product datasheet for TP307325

OriGene Technologies, Inc.

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LAPTM4B (NM_018407) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human lysosomal protein transmembrane 4 beta (LAPTM4B), 20 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC207325 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MTSRTRVTWPSPPRPLPVPAAAAVAFGAKGTDPAEARSSRGIEEAGPRAHGRAGREPERRRSRQQRRGGL QARRSTLLKTCARASATAPGAMKMVAPWTRFYSNSCCLCCHVRTGTILLGVWYLIINAVVLLILLSALAD PDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICATATYGAYKQRAAWIIPFFCYQIFDFALNMLVA ITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTFKGYLISCVWNCYRYINGRNSS

DVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 34.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 060877

Locus ID: 55353



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UniProt ID: Q86VI4 2242 RefSeq Size: Cytogenetics: 8q22.1 RefSeq ORF: 951

Synonyms: LAPTM4beta; LC27

Summary: Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR

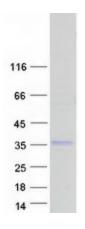
> intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4,5bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves LAPTM4B inhibition of EGFR degradation (PubMed:25588945). Recruits SLC3A2 and SLC7A5 (the Leu transporter) to the lysosome, 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).[UniProtKB/Swiss-Prot Function]

Protein Families: Transmembrane

Protein Pathways: Lysosome

Product images:



Coomassie blue staining of purified LAPTM4B protein (Cat# TP307325). The protein was produced from HEK293T cells transfected with LAPTM4B cDNA clone (Cat# [RC207325]) using

MegaTran 2.0 (Cat# [TT210002]).