

# Product datasheet for TP307325L

## LAPTM4B (NM\_018407) Human Recombinant Protein

### **Product data:**

#### **Product Type: Recombinant Proteins Description:** Recombinant protein of human lysosomal protein transmembrane 4 beta (LAPTM4B), 1 mg Species: Human HEK293T **Expression Host:** Expression cDNA Clone >RC207325 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s) MTSRTRVTWPSPPRPLPVPAAAAVAFGAKGTDPAEARSSRGIEEAGPRAHGRAGREPERRRSRQQRRGGL QARRSTLLKTCARASATAPGAMKMVAPWTRFYSNSCCLCCHVRTGTILLGVWYLIINAVVLLILLSALAD PDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICATATYGAYKQRAAWIIPFFCYQIFDFALNMLVA ITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTFKGYLISCVWNCYRYINGRNSS DVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA **TRTRPLEQKLISEEDLAANDILDYKDDDDKV** C-Myc/DDK Tag: 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 Recombinant protein was captured through anti-DDK affinity column followed by **Preparation:** 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. Store at -80°C. Storage: 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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#### OriGene Technologies, Inc.

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|                   | LAPTM4B (NM_018407) Human Recombinant Protein – TP307325L  |
|-------------------|--|
| UniProt ID:       | <u>Q86VI4</u>  |
| RefSeq Size:      | 2242   |
| Cytogenetics:     | 8q22.1   |
| RefSeq ORF:       | 951  |
| Synonyms:         | LAPTM4beta; LC27   |
| Summary:          | Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR<br>intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4,5-<br>bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves<br>LAPTM4B inhibition of EGFR degradation (PubMed:25588945). Recruits SLC3A2 and SLC7A5<br>(the Leu transporter) to the lysosome, promoting entry of leucine and other essential amino<br>acid (EAA) into the lysosome, stimulating activation of proton-transporting vacuolar (V)-ATPase<br>protein pump (V-ATPase) and hence mTORC1 activation (PubMed:25998567). Plays a role as<br>negative regulator of TGFB1 production in regulatory T cells (PubMed:26126825). Binds<br>ceramide and facilitates its exit from late endosome in order to control cell death pathways<br>(PubMed:26280656).[UniProtKB/Swiss-Prot Function] |
| Protein Families: | Transmembrane  |
| Protein Pathways  | : Lysosome   |
| Product imag      | es:  |

| 116 | _ |   |  |
|-----|---|---|--|
| 66  | _ |   |  |
| 45  | _ |   |  |
| 35  | _ | - |  |
| 25  | _ |   |  |
| 18  | _ |   |  |
| 14  | - |   |  |
|     |   |   |  |

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]).

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