

## Product datasheet for TP502675

### Laptm4b (NM\_033521) Mouse Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Mouse lysosomal-associated protein transmembrane 4B (Laptm4b), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug   |
| Species:                              | Mouse  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >MR202675 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|                                       | <br>MKMVAPWTRFYSHSCCLCCHVRTGILLGVWYLIINAVLLILLSALADPNQYHFGSELGGFEFEMDDA<br>NMCIAIAISLLMILICAMATYGAYKQHAAWIIPFCYQIFDFALNTLVAITVLVYPNSIQEYIRQLPPSF<br>PYRDDIMSVNPTCLVLIILLFIGILLTLKGYLISCVWSCYRYINGRNSDVLVYVTSNDTTVLLPPYDDA<br>TAVPSTAKEPPPPYVSA<br><br><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b> |
| Tag:                                  | C-MYC/DDK  |
| Predicted MW:                         | 25.4 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   |
| 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 after receiving vials.  |
| 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:                               | <a href="#">NP_277056</a>  |
| Locus ID:                             | 114128   |
| UniProt ID:                           | <a href="#">Q91XQ6</a> , <a href="#">B2CZK6</a>  |
| RefSeq Size:                          | 1897   |



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**Cytogenetics:** 15 B3.1

**RefSeq ORF:** 684

**Synonyms:** C330023P13Rik; LAPTM4beta

**Summary:** 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. [UniProtKB/Swiss-Prot Function]