

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for PH307325

LAPTM4B (NM_018407) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	LAPTM4B MS Standard C13 and N15-labeled recombinant protein (NP_060877)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207325
Predicted MW:	35 kDa
Protein Sequence:	>RC207325 protein sequence Red=Cloning site Green=Tags(s)
	MTSRTRVTWPSPPRPLPVPAAAAVAFGAKGTDPAEARSSRGIEEAGPRAHGRAGREPERRRSRQQRRGGL QARRSTLLKTCARASATAPGAMKMVAPWTRFYSNSCCLCCHVRTGTILLGVWYLIINAVVLLILLSALAD PDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICATATYGAYKQRAAWIIPFFCYQIFDFALNMLVA ITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTFKGYLISCVWNCYRYINGRNSS DVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 μg/μL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP 060877</u>
RefSeq Size:	2242
RefSeq ORF:	951
Synonyms:	LAPTM4beta; LC27
Locus ID:	55353

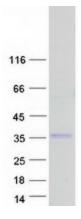


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	LAPTM4B (NM_018407) Human Mass Spec Standard – PH307325
UniProt ID:	<u>Q86VI4</u>
Cytogenetics:	8q22.1
Summary:	Required for optimal lysosomal function (PubMed:21224396). Blocks EGF-stimulated EGFR intraluminal sorting and degradation. Conversely by binding with the phosphatidylinositol 4,5-bisphosphate, regulates its PIP5K1C interaction, inhibits HGS ubiquitination and relieves LAPTM4B inhibition of EGFR degradation (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 Pathway	s: 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]).

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