

Datasheet for ABIN7560094

LAPTM4B Protein (AA 1-227) (His tag)



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Overview

Quantity:	1 mg
Target:	LAPTM4B
Protein Characteristics:	AA 1-227
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAPTM4B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Laptm4b Protein expressed in mammalien cells.
Sequence:	<p>MKMVAPWTRF YSHSCCLCCH VRTGTILLGV WYLIINAVVL LILLSALADP NQYHFSGSEL</p> <p>GGEFEFMDDA NMCIAIAISL LMILICAMAT YGAYKQHA AW IIPFFCYQIF DFALNTLVAI</p> <p>TVLVYPNSIQ EYIRQLPPSF PYRDDIMSVN PTCLVLIILL FIGILLTLKG YLISCVWSCY RYINGRNSSD</p> <p>VLVYVTSNDT TVLLPPYDDA TAVPSTAKEP PPPYVSA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and

Product Details

transmembrane proteins.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: LAPTM4B

Alternative Name: Laptm4b ([LAPTM4B Products](#))

Background: Lysosomal-associated transmembrane protein 4B,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 TGFβ1 production in regulatory T cells. Binds ceramide and facilitates its exit from late endosome in order to control cell death pathways. {ECO:0000250|UniProtKB:Q86VI4}.

Molecular Weight: 25.4 kDa

UniProt: [Q91XQ6](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a

Application Details

	guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months