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Datasheet for ABIN1097056

LAMP1 Protein (AA 29-382) (His tag)

Overview

Quantity:	50 µg
Target:	LAMP1
Protein Characteristics:	AA 29-382
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAMP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human LAMP1/CD107a (C-6His)
Sequence:	AMFMVKNNGG TACIMANFSA AFSVNYDTKS GPKNMTFDLP SDATVVLNRS SCGKENTSDP SLVIAFGRGH TLTLNFRNA TRYSVQLMSF VYNLSDTHLF PNASSKEIKT VESITDIRAD IDKKYRCVSG TQVHMNNVTV TLHDATIQAY LSNSSFSRGE TRCEQDRPSP TTAPPAPPSP SPSPVPKSPS VDKYNVSGTN GTCLLASMGL QLNLTYERKD NTTVTRLLNI NPNKTSASGS CGAHLVTLEL HSEGTTVLLF QFGMNASSSR FFLQGIQLNT ILPDARDPAF KAANGSLRAL QATVGNSYKC NAEHVRVTK AFSVNIFKVV VQAFKVEGGQ FGSVEECLLD ENSMVDHHHH HH
Characteristics:	Recombinant Human Lysosome-Associated Membrane Glycoprotein 1/LAMP1 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ala29-Met382) of Human LAMP1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: LAMP1

Alternative Name: lamp1 ([LAMP1 Products](#))

Sub Type: Fusionprotein

Background: Lysosome-Associated Membrane Glycoprotein 1 (LAMP1) is a single-pass type I membrane protein belonging to the LAMP family. LAMP1 is expressed largely in the endosome-lysosome membranes of cells. It shuttles between lysosomes, endosomes, and the plasma membrane. LAMP1 functions to present carbohydrate ligands to selectins and it has also been implicated in tumor cell metastasis. It has been proposed LAMP1 can be used as a therapeutic agent for certain cancers, as well as a marker for lysosomal storage disorders and degranulation on lymphocytes such as CD8+ and NK cells. Cell surface LAMP1 and LAMP2 have been shown to promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium, therefore they are possibly involved in the adhesion of PBMCs to the site of inflammation.

Alternative Names: Lysosome-Associated Membrane Glycoprotein 1, LAMP-1, Lysosome-Associated Membrane Protein 1, CD107 Antigen-Like Family Member A, CD107a, LAMP1

Molecular Weight: 39.42 kDa

UniProt: [P11279](#)

Pathways: [Autophagy](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months