

[Go to Product page](#)

Datasheet for ABIN1097059

LAMP2 Protein (AA 29-375) (His tag)

Overview

Quantity:	50 µg
Target:	LAMP2
Protein Characteristics:	AA 29-375
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LAMP2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human LAMP2/CD107b (C-6His)
Sequence:	LELNLTDSSEN ATCLYAKWQM NFTVRYETTN KTYKTVTISD HGTVTYNGSI CGDDQNGPKI AVQFGPGFSW IANFTKAAST YSIDSVSFSY NTGDNTTFPD AEDKGILTVD ELLAIRIPLN DLFRCNLSLT LEKNDVVQHY WDLVQAFVQ NGTVSTNEFL CDKDKTSTVA PTIHHTVPSP TTTTPTPKEKP EAGTYSVNNG NDTCLLATMG LQLNITQDKV ASVININPNT THSTGSCRSH TALLRLNSST IKYLDFVFAV KNENRFYLKE VNISMYLVNG SVFSIANNNL SYWDAPLGSS YMCNKEQTVS VSGAFQINTF DLRVQPFNVT QGKYSTAQEC SLDDDTIVDH HHHHH
Characteristics:	Recombinant Human Lysosome-Associated Membrane Glycoprotein 2/LAMP2 produced by transfected human cells is a secreted protein with sequence (Leu29-Ile375) of Human LAMP2 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: LAMP2

Alternative Name: lamp2 ([LAMP2 Products](#))

Sub Type: Fusionprotein

Background: Lysosomal Associated Membrane Protein 2 (LAMP2) is a major component of lysosomal membranes. LAMP2 is a transmembrane glycoprotein about 110kDa. Mature human LAMP2 consists of a 347 amino acid (aa) intraluminal domain, a 24 aa transmembrane segment, and a 35 aa cytoplasmic tail. The luminal domain is organized into two heavily N-glycosylated regions. Alternate splicing generates a human LAMP2 isoform (LAMP2B) with a substituted juxtamembrane luminal region, cytoplasmic tail and transmembrane segment. LAMP2 itself can cleavage lysosomal luminal domain and degradation lysosomal. In the help of chaperone HSC73, LAMP2 mediates the lysosomal uptake in complex with cargo proteins and is required for the lysosomal destruction of autophagic vacuoles.

Alternative Names: Lysosome-Associated Membrane Glycoprotein 2, LAMP-2, Lysosome-Associated Membrane Protein 2, CD107 Antigen-Like Family Member B, CD107b, LAMP2

Molecular Weight: 33.94 kDa

UniProt: [P13473](#)

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 Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

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
--------------	----------