

Recombinant human CD107b/LAMP2 protein

Catalog Number: ATGP3680

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

29-375aa

UniProt No.

P13473

NCBI Accession No.

NP_002285

Alternative Names

Lysosome-associated membrane glycoprotein 2, LAMP-2, Lysosome-associated membrane protein 2, CD107 antigen-like family member B, CD107b, Lysosomal membrane glycoprotein type B, LGP-B

PRODUCT SPECIFICATION

Molecular Weight

39.4 kDa (356aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LAMP2, also known as lysosome-associated membrane glycoprotein 2 isoform A, is a major component of lysosomal membranes. It provides selectins with carbohydrate ligands. This protein mediates the lysosomal uptake of the chaperone HSC73 in complex with cargo proteins and is required for the lysosomal destruction of

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autophagic vacuoles. Deficiency of LAMP2 is a rare X-linked lysosomal disease characterized by cardiomyopathy, vacuolar myopathy, and mental retardation. Recombinant human LAMP2 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADPLELNLT D SENATCLYAK WQMNFTVRYE TTNKTYKTVT ISDHGTVTYN GSI CGDDQNG PKIAVQFGPG FSWIANFTKA
ASTYSIDSVS FSYNTGDNTT FPDAEDKGIL TVDELLAIRI PLNDLFR CNS LSTLEKNDVV QHYWDVLVQA FVQNGTVSTN
EFLCDKDKTS TVAPTIHTTV PSPTTTPPK EKPEAGTYSV NNGNDTCLA TMGLQLNITQ DKVASVININ PNTTHSTGSC
RSHTALLRLN SSTIKYLDV FAVKNENRFY LKEVNISMVY VNGSVFSIAN NNLSYWDAPL GSSYMCNKEQ TVSVSGAFQI
NTFDLRVQPF NVTQ GKYSTA QDCSADDDNF HHHHHH

General References

Mello AS., et al, (2014) Mol Cell Biochem. 385:1-6.
Damaghi M., et al, (2015) Nat Commun. 6:8752.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)