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

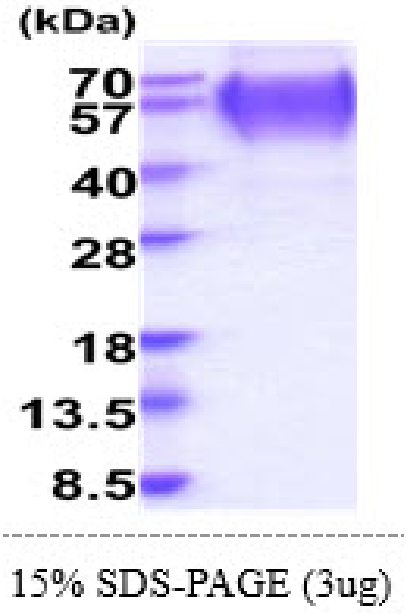
ADPLELNLTD SENATCLYAK WQMNFTVRYE TTNKTYKTVT ISDHGTVTYN GSICGDDQNG PKIAVQFGPG FSWIANFTKA ASTYSIDSVS FSYNTGDNTT FPDAEDKGIL TVDELLAIRI PLNDLFRCNS LSTLEKNDVV QHYWDVLVQA FVQNGTVSTN EFLCDKDKTS TVAPTIHTTV PSPTTTPTPK EKPEAGTYSV NNGNDTCLLA TMGLQLNITQ DKVASVININ PNTTHSTGSC RSHTALLRLN SSTIKYLDFV FAVKNENRFY LKEVNISMYL VNGSVFSIAN NNLSYWDAPL GSSYMCNKEQ TVSVSGAFQI NTFDLRVQPF NVTQGKYSTA 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



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