

Mouse LAMP2 / CD107b Protein (His Tag)

Catalog Number: 50791-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD107b; Lamp-2; Lamp-2a; Lamp-2b; Lamp-2c; LampII; LGP-B; Mac3

Protein Construction:

A DNA sequence encoding the mouse LAMP2 (P17047-1) extracellular domain (Leu 26-Asn 379) was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 26

Molecular Mass:

The secreted recombinant mouse LAMP2 comprises 365 amino acids and has a calculated molecular mass of 40.6 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 70-80 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

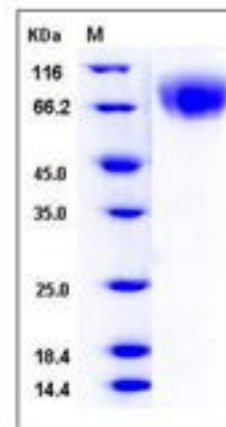
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LAMP2 (Lysosomal-associated membrane protein 2), also known as CD107b (Cluster of Differentiation 107b), is a member of a family of membrane glycoproteins. This glycoprotein provides selectins with carbohydrate ligands. In human, LAMP2, the causative gene of Danon disease, located on chromosome Xq24, encodes the lysosome-associated membrane protein-2 (LAMP-2). LAMP-2 deficiency, or Danon disease, is a rare X-linked lysosomal disease characterized by cardiomyopathy, vacuolar myopathy, and mental retardation. LAMP2 cardiomyopathy is an X-linked and highly progressive myocardial storage disorder associated with diminished survival, which clinically resembles sarcomeric hypertrophic cardiomyopathy.

References

1. Maron BJ, *et al.* (2010) Profound left ventricular remodeling associated with LAMP2 cardiomyopathy. *Am J Cardiol.* 106(8): 1194-6.
2. Di Blasi C, *et al.* (2008) Danon disease: a novel LAMP2 mutation affecting the pre-mRNA splicing and causing aberrant transcripts and partial protein expression. *Neuromuscul Disord.* 18(12): 962-6.
3. Echaniz-Laguna A, *et al.* (2006) Novel Lamp-2 gene mutation and successful treatment with heart transplantation in a large family with Danon disease. *Muscle Nerve.* 33(3): 393-7.

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For US Customer: Fax: 267-657-0217

• Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288

• Tel:+86-400-890-9989

• <http://www.sinobiological.com>