

Mouse LYVE1 / LYVE-1 Protein (Fc Tag)

Catalog Number: 50065-M02H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CRSBP-1; HAR; LYVE-1; XLKD1; 1200012G08Rik; Crsbp-1; Lyve-1; Xlkd1

Protein Construction:

A DNA sequence encoding the mouse LYVE1 (Q8BHC0) (Met1-Gly228) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 85 % 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: Ala 24

Molecular Mass:

The recombinant mouse LYVE1 /Fc is a disulfide-linked homodimer. The reduced monomer comprises 446 amino acids and has a predicted molecular mass of 49.1 kDa. The apparent molecular mass of the protein is approximately 63 kDa in SDS-PAGE under reducing conditions due to glycosylation.

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:

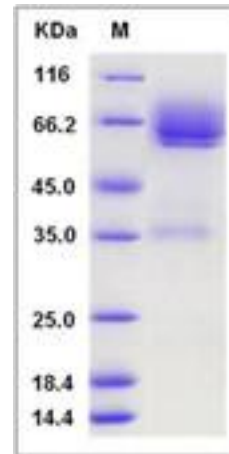
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LYVE1, also known as LYVE-1, is a type I integral membrane glycoprotein. It contains 1 Link domain and mainly expressed in endothelial cells lining lymphatic vessels. LYVE1 acts as a receptor and binds to both soluble and immobilized hyaluronan. It may function in lymphatic hyaluronan transport and have a role in tumor metastasis. LYVE1 also is a cell surface receptor on lymphatic endothelial cells that can be used as a lymphatic endothelial cell marker, and sort these cells for experimental purposes. It also functions as a ligand-specific transporter trafficking between intracellular organelles and the plasma membrane. It plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence binding. It may act as an hyaluronan transporter, either mediating its uptake for catabolism within lymphatic endothelial cells themselves, or its transport into the lumen of afferent lymphatic vessels for subsequent re-uptake and degradation in lymph nodes.

References

- 1.Jackson DG. (2003) The lymphatics revisited: new perspectives from the hyaluronan receptor LYVE-1. Trends Cardiovasc Med. 13(1):1-7.
- 2.Banerji S, *et al.* (1999) LYVE-1, a new homologue of the CD44 glycoprotein, is a lymph-specific receptor for hyaluronan. J Cell Biol. 144(4):789-801.
- 3.Mouta Carreira C, *et al.* (2001) LYVE-1 is not restricted to the lymph vessels: expression in normal liver blood sinusoids and down-regulation in human liver cancer and cirrhosis. Cancer Res. 61(22): 8079-84.

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