

Murine LYVE-1 soluble (glycosylated, his-tag)

Synonyms: Lyve1, Xlkd1, Lyve-1, Crsbp-1, 1200012G08Rik

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
20 µg	2135.962.020		

Please enquire for bulk quantities and other vial sizes

Description

A DNA sequence encoding the extracellular domain of mouse LYVE-1 (Met1 – Gly228) was fused to a C-terminal His-tag (6xHis) and expressed in insect cells. Based on N-terminal sequence analysis, the primary structure of recombinant mature sLYVE-1 starts at Ala24. sLYVE-1 has a calculated monomeric molecular mass of about 25 kDa but as a result of glycosylation, migrates at approximately 35 - 45 kDa under reducing conditions in SDS-PAGE. LYVE-1 has been identified as a major receptor for HA (extracellular matrix glycosaminoglycan hyaluronan) on the lymph vessel wall. The deduced amino acid sequence of LYVE-1 predicts a 322-residue type I integral membrane polypeptide 41% similar to the CD44 HA receptor with a 212-residue extracellular domain containing a single Link module the prototypic HA binding domain of the Link protein superfamily. Like CD44, the LYVE-1 molecule binds both soluble and immobilized HA. However, unlike CD44, the LYVE-1 molecule colocalizes with HA on the luminal face of the lymph vessel wall and is completely absent from blood vessels. Hence, LYVE-1 is the first lymph-specific HA receptor to be characterized and is a uniquely powerful marker for lymph vessels themselves.

- **Source** Insect cells
- **Purity** ≥ 95 % (SDS-PAGE, silver stained)

Biological Activity

Not tested so far!

Reconstitution

The lyophilized sLYVE-1 is soluble in water and most aqueous buffers. The lyophilized sLYVE-1 should be reconstituted in PBS or medium to a concentration not lower than 50 µg/ml.

Amino Acid Sequence

ADLVQDLSIS TCRIMGVALV GRNKNPQMNF TEANEACKML GLTLASRDQV ESAQKSGFET CSYGWVGEQF
SVIPRIFSNP RCGKNGKGV L IWNAPSSQKF KAYCHNSSDT WVNSCIPEIV TTFYPVLD TQ TPATEFSVSS
SAYLASSPDS TTPVSATTR A PPLTSMARKT KKICITEVYT EPITMATETE AFVASGA AFK NEAAGHHHHH
H

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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