

Lyve-1, soluble Recombinant Protein | Lyve1 recombinant protein

Mouse Lyve-1, soluble

CATALOG # AAA79273	HOST Insect Cells
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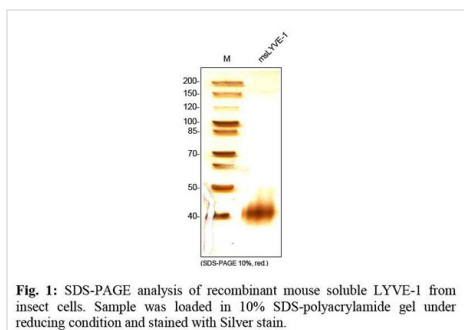
PRODUCT SYNONYMS

Lyve-1; soluble; Mouse Lyve-1; Recombinant Mouse Soluble LYVE-1-His; Lymphatic vessel endothelial hyaluronic acid receptor 1; Lyve1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized; PBS
Sequence	ADLVQDLSIS TCRIMGVALV GRNKNPQMNF TEANEACKML GLTLASRDQV ESAQKSGFET CSYGWVGGEQF SVIPRIFSNP RCGKNGKGV L IWNAPSSQKF KAYCHNSSDT WVNSCIPEIV TTFYPVLTQT PATEFSVSSS AYLASSPDST TPVSATTRAP PLTSMARKTK KICITEVYTE PITMATETEA FVASGAAFKN EAAGHHHHHH
Sequence Length	211
N Terminal Sequence	ADLVQDLS
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 50ug/ml.
Length (aa)	211
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sLYVE-1 should be stored in working aliquots at -20°C.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for Lyve1 recombinant protein	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.
Product Categories/Family for Lyve1 recombinant protein	Soluble receptors
References	1. Carriera et al., Cancer Res 61:8079, 2001 2. Jackson DG Trends Cardiovasc Med 13:1, 2003 3. Sleeman et al., Microsc Res Tech 55:61, 2001 4. Mäkinen et al., EMBO J 20 : 4762, 2001

NCBI AND UNIPROT INFORMATION

NCBI GI #	31560771
NCBI GeneID	114332
NCBI Accession #	NP_444477.2
NCBI GenBank Nucleotide #	NM_053247.4
UniProt Accession #	Q8BHC0 ; Q3TUC1 ; Q99NE4
Molecular Weight	35 - 45 kDa
NCBI Official Full Name	lymphatic vessel endothelial hyaluronic acid receptor 1
NCBI Official Synonym Full Names	lymphatic vessel endothelial hyaluronan receptor 1
NCBI Official Symbol	Lyve1
NCBI Official Synonym Symbols	Xlkd1; Lyve-1; Crsbp-1; 1200012G08Rik
NCBI Protein Information	lymphatic vessel endothelial hyaluronic acid receptor 1; extra cellular link domain-containing 1; lymphatic vessel endothelial HA recptor-1; lymphatic vessel endothelial HA receptor-1; extracellular link domain-containing protein 1; cell surface retention sequence binding protein-1; cell surface retention sequence-binding protein 1
UniProt Protein Name	Lymphatic vessel endothelial hyaluronic acid receptor 1
UniProt Gene Name	Lyve1
UniProt Synonym Gene Names	Crsbp1; Xlkd1; LYVE-1; CRSBP-1
UniProt Entry Name	LYVE1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/lyve1-recombinant-protein-insect/79273>