Datasheet for ABIN1589751

LYVE1 Protein (Soluble) (His tag)

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Overview

Quantity:	20 µg
Target:	LYVE1
Protein Characteristics:	Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LYVE1 protein is labelled with His tag.

Product Details

Sequence:	SLRAEELSIQ VSCRIMGITL VSKKANQQLN FTEAKEACRL LGLSLAGKDQ VETALKASFE TCSYGWVGDG FVVISRISPN PKCGKNGVGV LIWKVPVSRQ FAAYCYNSSD TWTNSCIPEI ITTKDPIFNT QTATQTTEFI VSDSTYSVAS PYSTIPAPTT TPPAPASTSI PRRKKLICVT EVFMETSTMS TETEPFVENK AAFKNEAAGH HHHHH
Characteristics:	Length (AA): 215 Chromosomal location: 11p15
Purity:	> 95 % by SDS-PAGE. Visualized by silver stain

Target Details

Target:	LYVE1
Alternative Name:	Lyve-1 (LYVE1 Products)
Background:	A DNA sequence encoding the extracellular domain of human LYVE-1 (Met1 to Gly232) was

Target Details

	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 Ser24. 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. Synonyms: LYVE1, HAR, XLKD1, LYVE-1, CRSBP-1
Molecular Weight:	35.0 - 45.0 kDa
NCBI Accession:	NP_006682, NM_006691
UniProt:	Q9Y5Y7
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Not tested so far!
Comment:	Soluble Receptors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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.
Buffer:	PBS
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C/-80 °C

Handling

Storage Comment:	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.
Expiry Date:	6 months