

LYVE1

Recombinant Human LYVE-1 His-Tag, soluble

Catalog No.	CRL604A	Quantity:	20 µg
Alternate Names:	Lymphatic vessel endothelial hyaluronic acid receptor 1, Cell surface retention sequence-binding protein 1, CRSBP-1, Hyaluronic acid receptor		
Description:	A DNA sequence encoding the extracellular domain of human LYVE-1 (Met1 to Gly232) 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 Ser24. 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.		
Uniprot ID:	Q9Y5Y7		
GenelD:	10894		
Source:	Insect cells		
Molecular Weight:	25 kDa (215 aa) predicted 35-45 kDa, apparent, due to glycosylation, reducing conditions		
Formulation:	Lyophilized from PBS.		
Purity:	> 95% by SDS-PAGE visualized by silver stain		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	Not available.		
Amino Acid Sequence:	SLRAEELSIQVSCRIMGITLVSKKANQQLNFTEAKEACRLLGLSLAGKDQVETALKASFE TCSYGWVGDFVVISRISPNPKCGKNGVGLIWKVPVSRQFAAYCYNSSDTWTNSCIP EIITTKDPIFNTQTATQTTEFIVSDSTYSVASPYSTIPAPTTTTPPAPASTSIPRRKKLICVTEV FMETSTMSTETEPFVENKAAFKNEAAGHHHHHH		
Reconstitution:	Centrifuge vial prior to opening. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.		
Storage & Stability:	Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

