

Recombinant Human LYVE1, His-tagged

Cat. No. LYVE1-47H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human Soluble LYVE1 fused to a C-terminal His-tag (6xHis) produced in *baculovirus* a monomeric, glycosylated, polypeptide containing 232 amino acids (Met-1 to Gly 232) and having a total molecular mass of 25 kDa but as a result of glycosilation the Mw is 40 kDa. The LYVE-1 is purified by proprietary chromatographic techniques.

Species Human

Source Insect Cells

ProteinLength 1-232 a.a.

Description 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.

Purity Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	SDS-PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	LYVE1 was lyophilized from a concentrated (1 mg/ml) sterile solution containing no additives.
Solubility	It is recommended to reconstitute the lyophilized LYVE1 in sterile water not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized sLYVE-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution sLYVE-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	LYVE1 lymphatic vessel endothelial hyaluronan receptor 1 [Homo sapiens]
Synonyms	LYVE1; lymphatic vessel endothelial hyaluronan receptor 1; HAR; XLKD1; LYVE-1; CRSBP-1; hyaluronic acid receptor; extracellular link domain containing 1; extracellular link domain-containing 1; cell surface retention sequence binding protein-1; CRSBP1; UNQ230/PRO263; Extracellular link domain-containing protein 1
Gene ID	10894
mRNA Refseq	NM_006691
Protein Refseq	NP_006682

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MIM	605702
UniProt ID	Q9Y5Y7
Chromosome Location	11p15
Function	Binding; hyaluronic acid binding; transmembrane receptor activity

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