Recombinant Human LYVE1, GST-tagged

Cat. No. LYVE1-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Soluble LYVE1 fused to a GST-tagged produced in*E.Coli*is a single, non-glycosylated, polypeptide containing 243-323 amino acids and having a total molecular mass of 36 kDa. The LYVE-1 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
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 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.

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Formulation	Recombinant Human LYVE-1 protein at 100μg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Storage	LYVE-1 although stable at 15℃for 1 week, should be stored desiccated below -18℃. 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
MIM	605702
UniProt ID	Q9Y5Y7
Chromosome Location	11p15
Function	Binding; hyaluronic acid binding; transmembrane receptor activity

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