

LYVE1 Human

Description: Soluble LYVE1 Human Recombinant fused to a GST-tag 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.

Catalog #: PKPS-259

For research use only.

Synonyms: Lymphatic vessel endothelial hyaluronic acid receptor 1 precursor, LYVE-1, Cell surface retention sequence-binding protein 1, CRSBP-1, Hyaluronic acid receptor, Extracellular link domain-containing protein.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Purity: Greater than 90.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

LYVE-1 Human Recombinant protein at 100

Stability:

LYVE-1 although stable at 15°C for 1 week, should be stored desiccated 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.

Usage:

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Introduction:

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.

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