# California Bioscience

## Product Datasheet

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| **Product Name** | Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1 Human Recombinant |
| **Cata No** | CB500858 |
| **Source** | *Escherichia Coli.* |
| **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. |

### 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. 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.

### 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 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

### Stability

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**.

**\* For Non-Clinical Research Use Only \***