



Recombinant Protein Technical Manual

Recombinant Human LYVE1/HAR Protein (His Tag)

RPES3998

Product Data:

Product SKU: RPES3998

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9Y5Y7

Protein Information:

Molecular Mass: 24.6 kDa

AP Molecular Mass: 46 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM Tris-Citrate, 150mM NaCl, pH 7.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1; LYVE; Cell Surface Retention Sequence-Binding Protein 1; CRSBP; Extracellular Link Domain-Containing Protein 1; Hyaluronic Acid Receptor; LYVE1; CRSBP1; HAR; XLKD1

Immunogen Information:

Sequence: Leu20-Thr 238

Background:

Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1 is a single-pass type I membrane protein. LYVE is a CD44 homolog found primarily on lymphatic endothelial cells ¹. LYVE mainly expressed in endothelial cells lining lymphatic vessels. While LYVE functions is a Ligand-specific transporter trafficking between intracellular organelles (TGN) and the plasma membrane. LYVE plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence binding (CRS). It may act as an hyaluronan (HA) transporter, either mediating its uptake for catabolism within lymphatic endothelial cells themselves, or its transport into the lumen of afferent lymphatic vessels for subsequent re-uptake and degradation in lymph nodes.