Datasheet for ABIN1097116

LYVE1 Protein (AA 20-238) (His tag)

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Overview

Quantity:	50 µg
Target:	LYVE1
Protein Characteristics:	AA 20-238
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LYVE1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human LYVE-1/HAR/XLKD1 (C-6His)
Sequence:	LVQGSLRAEE LSIQVSCRIM GITLVSKKAN QQLNFTEAKE ACRLLGLSLA GKDQVETALK ASFETCSYGW VGDGFVVISR ISPNPKCGKN GVGVLIRKVP VSRQFAAYCY NSSDTWTNSC IPEIITTKDP IFNTQTATQT TEFIVSDSTY SVASPYSTIP APTTTPPAPA STSIPRRKKL ICVTEVFMET STMSTETEPF VENKAAFKNE AAGFGGVPTV DHHHHHH
Characteristics:	Recombinant Human Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1/LYVE-1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Leu20-Thr238) of Human LYVE-1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	LYVE1
Alternative Name:	lyve-1 (LYVE1 Products)
Sub Type:	Fusionprotein
Background:	Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1 is a single-pass type I membrane protein. LYVE-1 is a CD44 homolog found primarily on lymphatic endothelial cells 1. LYVE-1 mainly expressed in endothelial cells lining lymphatic vessels. While LYVE-1 functions is a Ligand-specific transporter trafficking between intracellular organelles (TGN) and the plasma membrane. LYVE-1 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. Alternative Names: Lymphatic Vessel Endothelial Hyaluronic Acid Receptor 1, LYVE-1, Cell Surface Retention Sequence-Binding Protein 1, CRSBP-1, Extracellular Link Domain-Containing Protein 1, Hyaluronic Acid Receptor, LYVE1, CRSBP1, HAR, XLKD1
Molecular Weight:	24.6 kDa
UniProt:	Q9Y5Y7
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-Citrate,1 50 mM NaCl, pH 7.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Handling

	Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months