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## Datasheet for ABIN1672871 LYVE1 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	LYVE1
Binding Specificity:	AA 24-238
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human LYVE-1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S24-T238
Specificity:	Expression system for standard: NSO Immunogen sequence: S24-T238
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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#### Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

### Target Details

Target:	LYVE1
Alternative Name:	LYVE1 (LYVE1 Products)
Background:	Protein Function: Ligand-specific transporter trafficking between intracellular organelles (TGN)
	and the plasma membrane. Plays a role in autocrine regulation of cell growth mediated by
	growth regulators containing cell surface retention sequence binding (CRS). May act as a
	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
	Background: Extracellular link domain containing 1, also known as LYVE-1 or XLKD1 is a huma
	gene. The International Radiation Hybrid Mapping Consortium mapped the LYVE1 gene to
	chromosome 11p15.4. This gene encodes a type I integral membrane glycoprotein. The
	encoded protein acts as a receptor and binds to both soluble and immobilized hyaluronan. This
	protein may function in lymphatic hyaluronan transport and have a role in tumor metastasis.
	This gene may play a role in autocrine regulation of cell growth mediated by growth regulators
	containing cell surface retention sequence binding(CRS). It may act as a 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.
	Synonyms: 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,UNQ230/PRO263,
	Full Gene Name: Lymphatic vessel endothelial hyaluronic acid receptor 1
	Cellular Localisation: Membrane, Single-pass type I membrane protein . Localized to the plasm
	membrane and in vesicles near extranuclear membranes which may represent trans-Golgi
	network (TGN) and endosomes/prelysosomeal compartments. Undergoes ligand- dependent
	internalization and recycling at the cell surface.
Gene ID:	10894

#### Target Details

UniProt:	Q9Y5Y7
Pathways:	Glycosaminoglycan Metabolic Process
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Mainly expressed in endothelial cells lining lymphatic vessels
Plate:	Pre-coated
Protocol:	human LYVE-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for LYVE-1 has been precoated
	onto 96-well plates. Standards(NSO, S24-T238) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for LYVE-1 is added subsequently
	and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was
	added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate
	TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a
	blue color product that changed into yellow after adding acidic stop solution. The density of
	yellow is proportional to the human LYVE-1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL human LYVE-1 standard solutions into the precoated 96-well plate. Ad
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of human cell culture supernates, cell lysates or tissue homogenates t
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human LYVE-1 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 194, Standard deviation: 6.984, CV(%): 3.6
	• Sample 2: n=16, Mean(pg/ml): 633, Standard deviation: 29.8, CV(%): 4.7
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 1226, Standard deviation: 79.69, CV(%): 6.5,</li> <li>Sample 1: n=24, Mean(ng/ml): 255. Standard deviation: 12.26, CV(%): 5.2.</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 255, Standard deviation: 13.26, CV(%): 5.2</li> <li>Sample 2: n=24, Mean(pg/ml): 812, Standard deviation: 47.91, CV(%): 5.9</li> </ul>
	<ul> <li>Sample 3: n=24, Mean(pg/ml): 1438, Standard deviation: 102.1, CV(%): 7.1</li> </ul>
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
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Handling	
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months
Publications	
Product cited in:	Du, Chen, Wang, Wen, Wang, Wang, Kan, Wei, Zhao: "VEGF-D-induced draining lymphatic enlargement and tumor lymphangiogenesis promote lymph node metastasis in a xenograft model of ovarian carcinoma." in: <b>Reproductive biology and endocrinology : RB&amp;E</b> , Vol. 12, pp. 14, (2014) (PubMed).

Images



#### ELISA

Image 1. Human LYVE-1 PicoKine ELISA Kit standard curve