



Rabbit Anti-LYVE-1 antibody

SL20354R

Product Name:	LYVE-1
Chinese Name:	淋巴管内皮透明质酸受体抗体
Alias:	LYVE1; lymphatic vessel endothelial hyaluronan receptor 1; CRSBP 1; CRSBP1; extracellular link domain containing 1; extracellular link domain-containing 1; HAR; hyaluronic acid receptor; Cell surface retention sequence-binding protein 1; CRSBP-1; extracellular link domain-containing 1; Extracellular link domain-containing protein 1; Lymphatic vessel endothelial hyaluronic acid receptor 1; LYVE1_MOUSE; Lymphatic endothelium specific hyaluronan receptor; LYVE 1; LYVE-1; XLKD1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	The cell membraneExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LYVE-1:141-250/322<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The lymphatic vasculature forms a second circulatory system that drains extracellular fluid from the tissues and provides an exclusive environment in which immune cells can

encounter and respond to foreign antigen. Recently a number of interesting molecules have been identified that may be exploited as markers for lymphatic endothelium, including the hyaluronan receptor LYVE1, PALE, VEGFR3, podoplanin. LYVE1 has been identified as a major receptor for HA (extracellular matrix glycosaminoglycan hyaluronan) on the lymph vessel wall. The deduced amino acid sequence of LYVE1 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 LYVE1 molecule binds both soluble and immobilized HA. However, unlike CD44, the LYVE1 molecule colocalizes with HA on the luminal face of the lymph vessel wall and is completely absent from blood vessels. Hence, LYVE1 is the first lymph-specific HA receptor to be characterized and is a uniquely powerful marker for lymph vessels themselves.

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 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.

Subunit:

Homodimer; disulfide-linked. Interacts with PDGFB and IGFBP3. Forms a transient ternary complex with PDGFB and PDGFRB in TGN.

Subcellular Location:

Membrane; Single-pass type I membrane protein. Note=Localized to the plasma membrane and in vesicles near extranuclear membranes which may represent trans-Golgi network (TGN) and endosomes/prelysosomal compartments. Undergoes ligand-dependent internalization and recycling at the cell surface.

Post-translational modifications:

O-glycosylated.

Similarity:

Contains 1 Link domain.

SWISS:

Q9Y5Y7

Gene ID:

10894

Database links:

[Entrez Gene: 10894](#)Human

[Entrez Gene: 114332](#)Mouse

[Omin: 605702](#)Human

[SwissProt: Q9Y5Y7](#)Human

[SwissProt: Q8BHC0](#)Mouse

[Unigee: 246769](#)Human

[Unigene: 655332](#)Human

[Unigene: 396078](#)Mouse

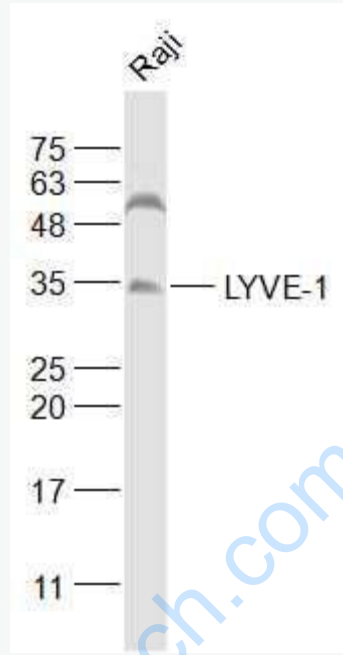
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

淋巴管Marker LYVE-

1是一种特异性氨基葡聚糖透明质酸受体, 均匀分布在淋巴管的管腔面和基底膜, 目前多用于Tumour淋巴转移方面的研究。淋巴管endothelial cells透明质酸受体1 (LYVE1) LYVE1是位于淋巴管endothelial cells上的含有322个氨基酸残基的膜蛋白。与CD44glycoprotein同源, 均匀分布于淋巴管内外腔面, 可与Extracellular matrix的葡萄糖胺聚糖透明质酸结合, 具有从组织摄取透明质酸盐并转运至淋巴液的作用。

Picture:



Sample:

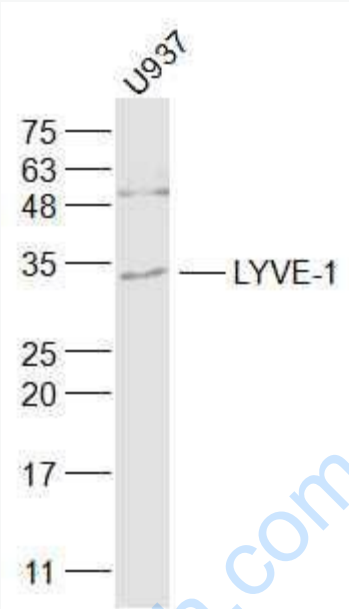
Raji(Human) Cell Lysate at 30 ug

Primary: Anti-LYVE-1 (SL20354R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32 kD

Observed band size: 34 kD



Sample:

U937(Human) Cell Lysate at 30 ug

Primary: Anti-LYVE-1 (SL20354R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32 kD

Observed band size: 34 kD