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# LYVE1 Rabbit mAb

Catalog # AP75685

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, FC, IP |
| **Primary Accession** | Q8BHC0 |
| **Reactivity** | Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity Purified |
| **Calculated MW** | 34574 |

## Additional Information

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|---|---|
| **Gene ID** | 114332 |
| **Other Names** | Lyve1 |
| **Dilution** | WB~~1:500-1:1000 IHC-P~~N/A FC~~1:50-1:100 IP~~1:20-1:50 |
| **Format** | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

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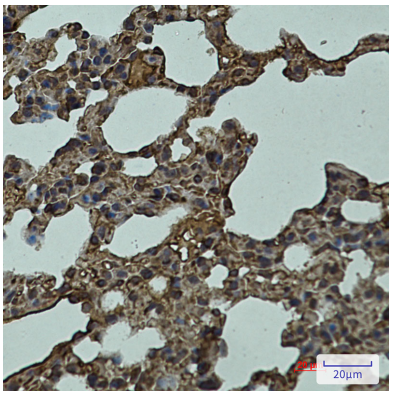
|---|---|
| **Name** | Lyve1 |
| **Synonyms** | Crsbp1, Xlkd1 |
| **Function** | Ligand-specific transporter trafficking between intracellular organelles (TGN) and the plasma membrane. Plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention 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 (PubMed:10187853). Binds to pericelluar hyaluronan matrices deposited on the surface of leukocytes and facilitates cell adhesion and migration through lymphatic endothelium (By similarity). |
| **Cellular 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/prelysosomeal compartments. Undergoes ligand-dependent internalization and recycling at the cell surface

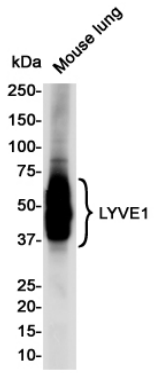
## Background

Lymphatic vessel endothelial hyaluronan receptor 1 (LYVE1), also known as extracellular link domain containing 1 (XLKD1) is a Link domain-containing hyaladherin, a protein capable of binding to hyaluronic acid (HA), homologous to CD44, the main HA receptor. In humans it is encoded by the LYVE1 gene. LYVE1 is a type I integral membrane glycoprotein. It 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. LYVE-1 is a cell surface receptor on lymphatic endothelial cells that can be used as a lymphatic endothelial cell marker, allowing for the isolation of these cells for experimental purposes. The physiological role for this receptor is still the subject of debate, but evolutionary conservation suggests an important role. Expression of LYVE1 not restricted to lymph vessels but is also observed in normal liver blood sinusoids, and embryonic blood vessels.

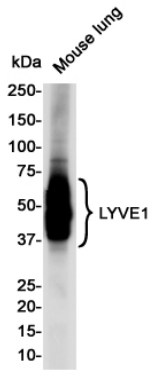
## Images

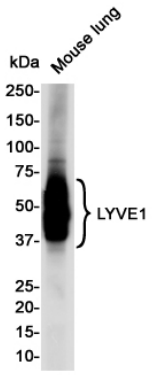



Immunohistochemistry analysis of paraffin-embedded mouse lung using LYVE1 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.




Western blot analysis of LYVE1 in mouse Lung lysates using LYVE1 antibody.



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