

Product datasheet for **TA336490**

LYVE1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	Flow (Intracellular), Western Blot: 1:500-1:2000, Immunohistochemistry-Paraffin: 1:100-1:200, Immunohistochemistry-Frozen: 1:100-1:200, Flow Cytometry: 1:50-1:500, Immunohistochemistry: 1:100-1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to a C-terminal portion of the mouse LYVE1 protein sequence (between residues 250-318). [UniProt# Q8BHC0]
Formulation:	PBS, 0.02% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	lymphatic vessel endothelial hyaluronan receptor 1
Database Link:	NP_006682 Entrez Gene 114332 MouseEntrez Gene 293186 RatEntrez Gene 10894 Human Q9Y5Y7



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Background:

LYVE1 (lymphatic vessel endothelial hyaluronan receptor-1) is the lymphatic vessel endothelial hyaluronic acid receptor located in lymph nodes and in the luminal/abluminal surfaces of lymphatic vessels. It is one of the most specific and widely used mammalian lymphatic endothelial markers. LYVE-1 exists as disulfide-linked homodimer, can interact with PDGFB/IGFBP3 and also forms transient ternary complex with PDGFB and PDGFRB in trans-Golgi network (TGN). LYVE1 is a single-pass type I membrane protein localized in plasma membrane and in vesicles near extranuclear membranes which represents TGN and endosomes or pre-lysosomal compartments. LYVE1 undergoes ligand-dependent internalization and recycling at the cell surface, and executes ligand-specific transporter trafficking between intracellular organelles/TGN and plasma membrane. LYVE1 plays a key role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence binding. LYVE1 behaves as hyaluronan 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. LYVE-1 is very efficient in the passage of lymphocytes as well as the tumor cells into the lymphatics.

Synonyms:

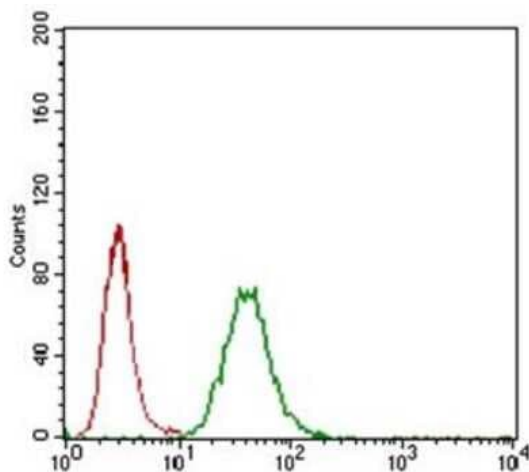
CRSBP-1; HAR; LYVE-1; XLKD1

Note:

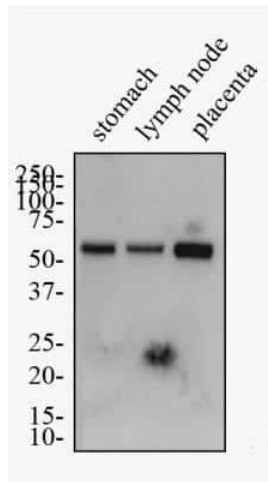
This LYVE1 antibody is useful for Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin and Western Blot where a band at ~45 kDa is seen. For Immunohistochemistry citrate buffer antigen retrieval is recommended.

Protein Families:

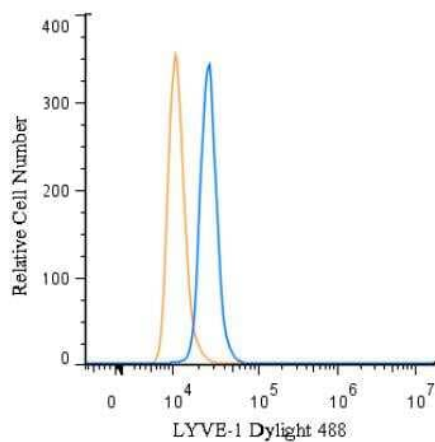
Druggable Genome, Transmembrane

Product images:

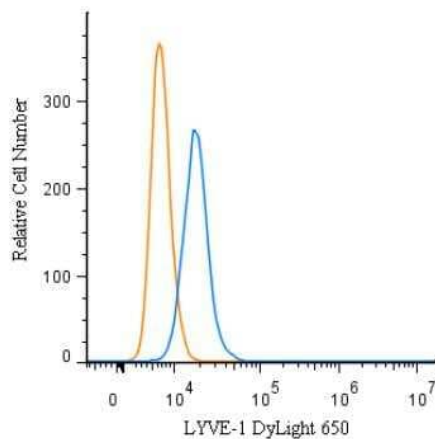
Flow Cytometry: LYVE-1 Antibody TA336490 - LYVE1 antibody was tested at 1:400 in A549 cells using an Alexa Fluor 488 secondary (shown in green) alongside unstained cells (shown in red).



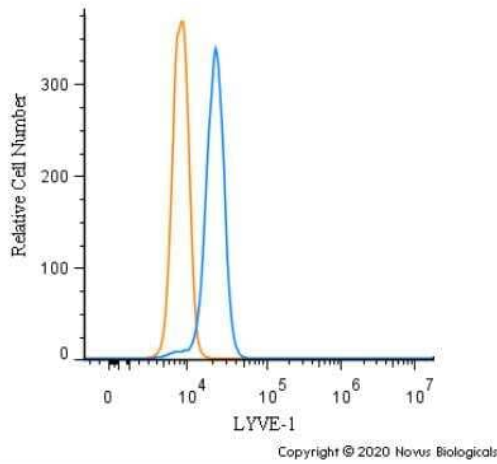
Western Blot: LYVE-1 Antibody TA336490 - Western Blot: TA336490 - Total protein from human stomach, lymph node and placenta was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml anti-LYVE1 in 1% milk, and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



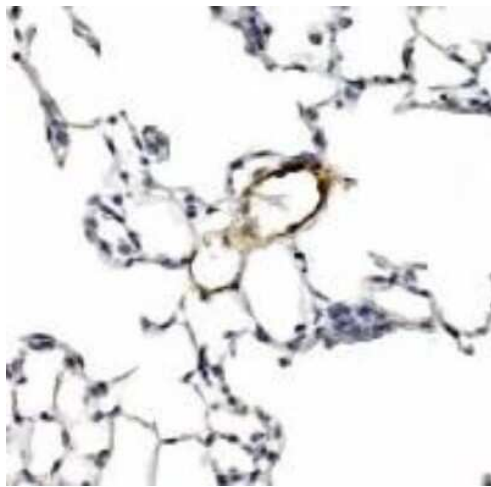
Flow Cytometry: LYVE-1 Antibody TA336490 - An intracellular stain was performed on A549 cells with LYVE-1 Antibody [TA336490G] (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 488.



Flow Cytometry: LYVE-1 Antibody TA336490 - An intracellular stain was performed on K562 cells with LYVE-1 Antibody [TA336490C] (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 650.



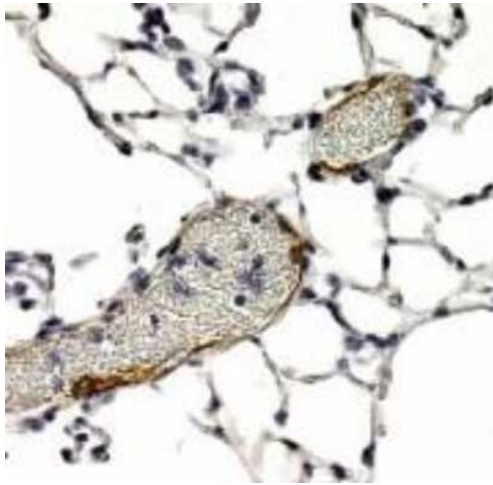
Flow Cytometry: LYVE-1 Antibody TA336490 - An intracellular stain was performed on A549 cells with LYVE-1 Antibody TA336490 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (SA5-10033, Thermo Fisher).



Immunohistochemistry: LYVE-1 Antibody TA336490 - Detection of LYVE1 in endothelial cells of human lung blood vessels using TA336490.



Immunohistochemistry: LYVE-1 Antibody TA336490 - Detection of LYVE1 in endothelial cells of human bladder vasculature using TA336490.



Immunohistochemistry: LYVE-1 Antibody
TA336490 - Detection of LYVE1 in endothelial cells
of human lung blood vessels using TA336490.
Note presence of RBCs within vessel lumen.