abcam

ab36993

Anti-LYVE1 antibody

Anti-LYVE1 antibody (ab36993) is a rabbit polyclonal antibody detecting LYVE1 in **Western Blot, Flow Cytometry, IHC-P, IHC-Fr**. Suitable for **Dog, Human,**.

- Over 10 publications
- Trusted since 2006

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Constituents: PBS
Form	Lyophilized
Clonality	Polyclonal
Immunogen	Recombinant Fragment Protein within Human LYVE1 aa 1-250. The exact immunogen used to generate this antibody is proprietary information. Database link Q9Y5Y7
Carrier free	Yes
Purification technique	Affinity purification Immunogen
Reconstitution	Reconstitute in water

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	3-10 µg/mL
Notes	ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Dog
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

WB

Tested

Species	Recombinant fragment - Human
Dilution info	1-2 µg/mL
Notes	-

Expected

Species	Human, Dog
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	6-30 µg/mL

Notes	-

Species	Dog
Dilution info	6-30 µg/mL
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Human
Dilution info	6-30 µg/mL
Notes	-

Expected

Species	Dog
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

Target data

See full target information LYVE1

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:10037799). Binds to pericelluar hyaluronan matrices deposited on the surface of leukocytes and facilitates cell adhesion and migration through lymphatic endothelium (PubMed:26823460).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-LYVE1 antibody (ab36993) is a rabbit polyclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr) in Dog, Human, samples.

What is the molecular weight of LYVE1?
Anti-LYVE1 (ab36993) specifically detects a band for LYVE1 (UniProt: Q9Y5Y7) at a molecular weight of 35kDa.

Trusted by the scientific community
Anti-LYVE1 (ab36993) was first used in a scientific publication in 2006 and has been cited over 10 times in peer-reviewed journals.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The protein "LYVE1" also known as Lymphatic Vessel Endothelial Hyaluronan Receptor 1 has a molecular mass of about 60 kDa. This protein is located on the surface of lymphatic endothelial cells. Its expression occurs mainly within the

	lymphatic vessels serving as an important marker for identifying lymphatic endothelium. LYVE1 facilitates the transportation of hyaluronan an important glycosaminoglycan through lymphatic vessels playing a critical role in the maintenance of extracellular matrix and tissue fluid homeostasis.
Biological function summary	LYVE1 plays a role in lymphatic system regulation and immune cell trafficking. It forms part of a network that binds hyaluronan contributing to the regulation of cell migration and adhesion. This protein interacts with molecules like CD44 and other receptors which also participate in hyaluronan binding. LYVE1's function in maintaining the balance of hyaluronan within tissues is central affecting not only the lymphatic system but also immune responses.
Pathways	LYVE1 engages in both the hyaluronan metabolism and lymphangiogenesis pathways. Its interaction with CD44 plays a significant role in the transport and uptake of hyaluronan influencing cellular processes such as proliferation and motility. These interactions link LYVE1 to pathways controlling fluid balance and immune surveillance marking it as essential for maintaining healthy lymphatic and immune function.
Associated diseases and disorders	LYVE1 shows a connection to lymphatic-related conditions such as lymphedema and cancer metastasis. Alterations or dysregulation of LYVE1 expression can affect lymphatic function potentially leading to the accumulation of interstitial fluid as seen in lymphedema. In cancer increased LYVE1 expression can relate to tumor metastasis where it functions alongside proteins like VEGFR-3 in promoting lymphatic vessel growth and facilitating cancer cell spread.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

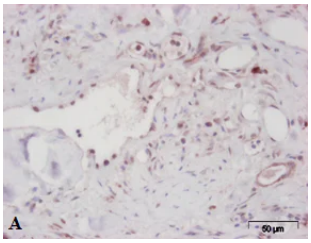
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

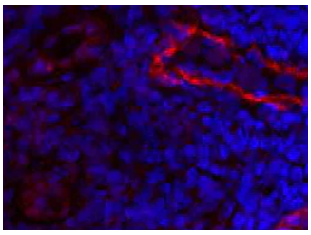
7 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody (ab36993)

LYVE1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LYVE1 antibody

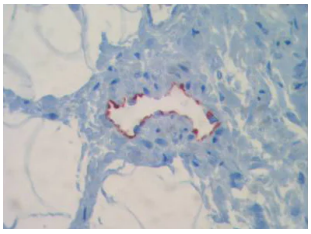
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of lymphatic vessels of malignant canine mammary tumor tissue sections labelling LYVE1 with ab36993.



Immunohistochemistry (Frozen sections) - Anti-LYVE1 antibody (ab36993)

LYVE1 Immunohistochemistry (Frozen sections) staining using rabbit Anti-LYVE1 antibody

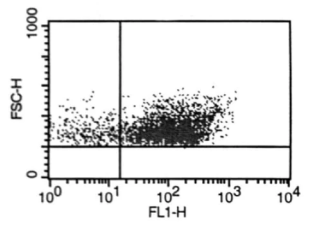
The staining was performed on frozen sections from human colon carcinoma using ab36993 (polyclonal anti-human LYVE-1 antibody; protein-A purified; 10 µg/ml).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody (ab36993)

LYVE1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LYVE1 antibody

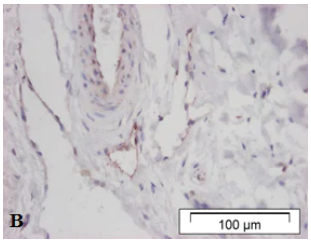
IHC with paraffin-embedded sections of human intestine (border area of a colon carcinoma) using antibody ab36993.



Flow Cytometry - Anti-LYVE1 antibody (ab36993)

LYVE1 Flow Cytometry staining using rabbit Anti-LYVE1 antibody

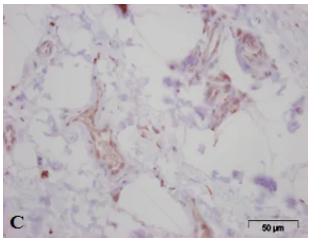
Flow Cytometry analysis of human dermal microvascular endothelial cells (HDMVEC) labelling LYVE1 with ab36993.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody (ab36993)

LYVE1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LYVE1 antibody

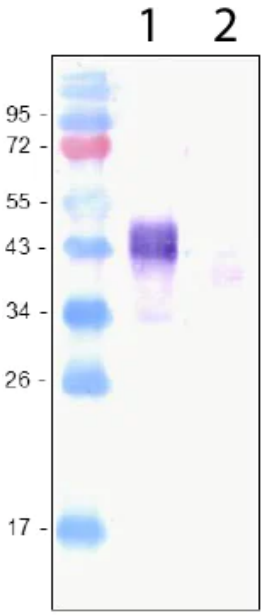
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of lymphatic vessels of benign canine mammary tumor tissue sections labelling LYVE1 with ab36993.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LYVE1 antibody (ab36993)

LYVE1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-LYVE1 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of lymphatic vessels of normal canine mammary tissue sections labelling LYVE1 with ab36993.



Western blot - Anti-LYVE1 antibody (ab36993)

All lanes:
Western blot - Anti-LYVE1 antibody (ab36993)

Lane 1:
Recombinant Human LYVE1 protein (ab54341)

Lane 2:
Recombinant Mouse LYVE1 protein (ab54342)

Predicted band size: 35 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.