

Product datasheet for **DP3500PS**

LYVE1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	Immunohistochemistry on Frozen and Paraffin Embedded Sections (1-5 µg/ml). Heat mediated antigen retrieval is recommended when staining paraffin embedded sections. Western blot (1-2 µg/ml). ELISA (1-15 µg/ml). Flow Cytometry (3-20 µg/ml).
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure recombinant Human soluble LYVE-1 produced in insect cells <i>Çat.-No</i> DA3525). It consists of amino acid 24 (Ser) to 232 (Gly) and is fused to a C-terminal His-tag (6xHis).
Specificity:	This antibody will detect LYVE-1 on the surface of lymphatic endothelial cells by Immunohistochemistry. It detects a 70 kD LYVE-1 band in Western blotting. This antibody is not reactive with Mouse LYVE-1.
Formulation:	5mM PBS, pH 7.2 without preservatives or stabilizers State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml
Purification:	Antigen Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 10894 Human Q9Y5Y7



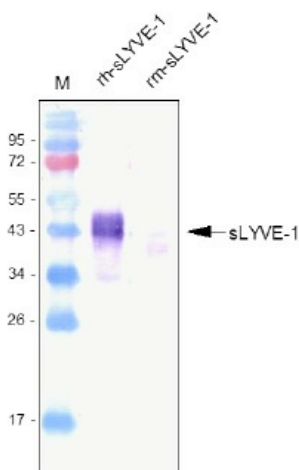
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Background:

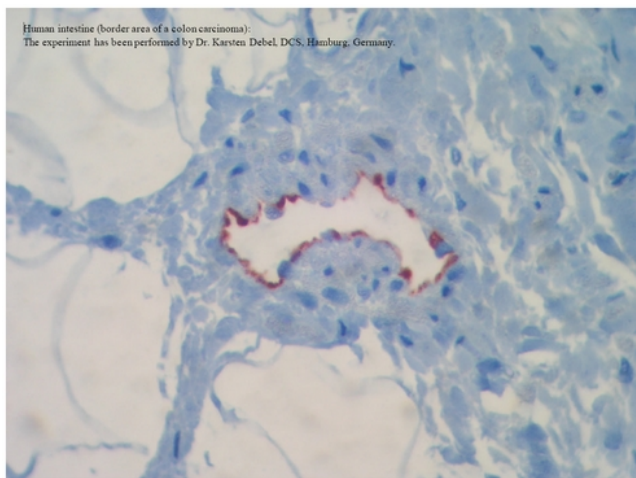
LYVE-1 has been identified as a major receptor for HA (extracellular matrix glycosaminoglycan hyaluronan) on the lymph vessel wall. The deduced amino acid sequence of LYVE-1 predicts a 322-residue type I integral membrane polypeptide 41% similar to the CD44 HA receptor with a 212-residue extracellular domain containing a single Link module the prototypic HA binding domain of the Link protein superfamily. Like CD44, the LYVE-1 molecule binds both soluble and immobilized HA. However, unlike CD44, the LYVE-1 molecule colocalizes with HA on the luminal face of the lymph vessel wall and is completely absent from blood vessels. Hence, LYVE-1 is the first lymph-specific HA receptor to be characterized and is a uniquely powerful marker for lymph vessels.

Synonyms:

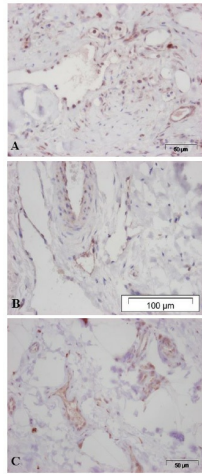
LYVE1, CRSBP-1, CRSBP1, HAR, XLKD1

Product images:


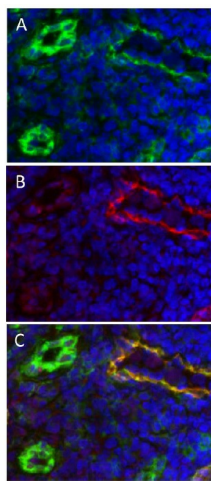
Western analysis of recombinant human sLYVE-1 ([DA3525]) and mouse sLYVE-1 ([DA3524]) using an anti-human LYVE-1 polyclonal antibody directed against the extracellular domain of human LYVE-1. There is more or less no cross reactivity with mouse LYVE-1.



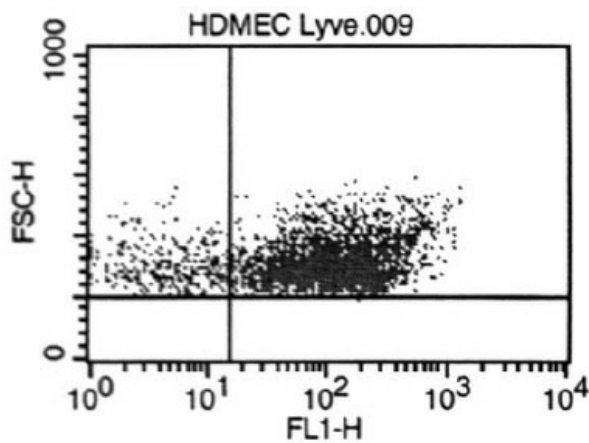
LYVE-1 antibody staining of Human Intestine (border area of a Colon Carcinoma). The experiment has been performed by Dr. Karsten Debel, DCS, Hamburg, Germany.



Immunohistochemical staining of the lymphatic vessels with antihuman LYVE-1 polyclonal antibody. (A) malignant canine mammary tumor; (B) benign canine mammary tumor; (C) normal canine mammary gland tissue. The experiment was performed by the research group of Applied Veterinary Morphology - University of Antwerp.



Cryo sections of human colon carcinoma labeled with rabbit polyclonal antibody against human LYVE-1 (red) and human CD31 (green). A: CD31; B: LYVE-1; C: CD31/LYVE-1



FACS analysis with primary human dermal microvascular endothelial cells (HDMVEC).