

## Polyclonal Antibody to LYVE-1 - Purified

<b>Alternate names:</b>	CRSBP-1, CRSBP1, Cell surface retention sequence-binding protein 1, Extracellular link domain-containing protein 1, HAR, Hyaluronic acid receptor, LYVE1, Lymphatic vessel endothelial hyaluronic acid receptor 1, XLKD1
<b>Catalog No.:</b>	DP3513
<b>Quantity:</b>	0.2 mg
<b>Background:</b>	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 themselves.
<b>Uniprot ID:</b>	<a href="#">Q8BHC0</a>
<b>NCBI:</b>	<a href="#">NP_444477.2</a>
<b>GeneID:</b>	<a href="#">114332</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Highly pure recombinant Mouse soluble LYVE-1 produced in insect cells. This recombinant soluble LYVE-1 consists of amino acid 24 (Ala) to 228 (Gly) and is fused to a C-terminal His-tag (6xHis).
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction <b>Purification:</b> Protein G Chromatography (+ his tag depletion) <b>Buffer System:</b> PBS, pH 7.2 without preservatives or stabilizers <b>Reconstitution:</b> Restore in sterile water/PBS to a concentration of > 0.5 mg/ml.
<b>Applications:</b>	<b>ELISA</b> (1-15 µg/ml). <b>Western blot</b> (1-2 µg/ml). <b>FACS analysis</b> (3-20 µg/ml). <b>Immunohistochemistry on Frozen Sections</b> (1-5 µg/ml). For formalin-fixed, paraffin-embedded sections use the immunogen affinity purified antibody <i>Cat.-No</i> DP3513P. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Lyve-1.
<b>Species Reactivity:</b>	<b>Tested:</b> Mouse. This antibody is not reactive with Human LYVE-1.

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Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
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**Storage:**

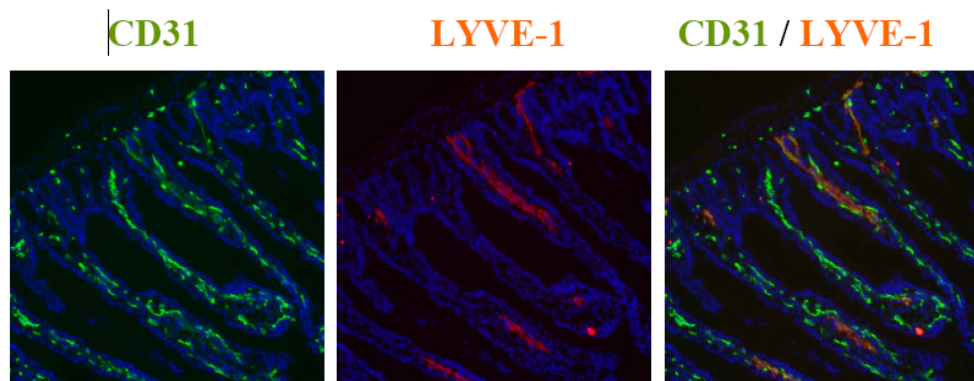
The lyophilized IgG is stable at 2-8°C for one month and at -20°C for longer.  
When reconstituted the antibody is stable for at least six weeks at 2-8°C.  
For longer store in aliquots at -20°C.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**Product Citation:**

1. Claudius Conrad, Hanno Niess, Ralf Huss, Stephan Huber, Irene von Luetlichau, Peter J. Nelson, Harald C. Ott, Karl-Walter Jauch, and Christiane J. Bruns. Multipotent Mesenchymal Stem Cells Acquire a Lymphendothelial Phenotype and Enhance Lymphatic Regeneration In Vivo. *Circulation*, Jan 2009; 119: 281-289.
2. Takahiro Heishi, Tomoko Hosaka, Yasuhiro Suzuki, Hiroki Miyashita, Yuichi Oike, Takashi Takahashi, Takumi Nakamura, Shingo Arioka, Yuichi Mitsuda, Tomoaki Takakura, Kanji Hojo, Mitsunobu Matsumoto, Chihiro Yamauchi, Hideki Ohta, Hikaru Sonoda, and Yasufumi Sato. Endogenous Angiogenesis Inhibitor Vasohibin1 Exhibits Broad-Spectrum Antilymphangiogenic Activity and Suppresses Lymph Node Metastasis. *Am. J. Pathol.*, Apr 2010; 176: 1950-1958

**General References:**

1. Carriera et al., *Cancer Res* 61:8079, 2001.
2. Jackson DG *Trends Cardiovasc Med* 13:1, 2003.
3. Sleeman et al., *Microsc Res Tech* 55:61, 2001.
4. Mäkinen et al., *EMBO J* 20 : 4762, 2001.

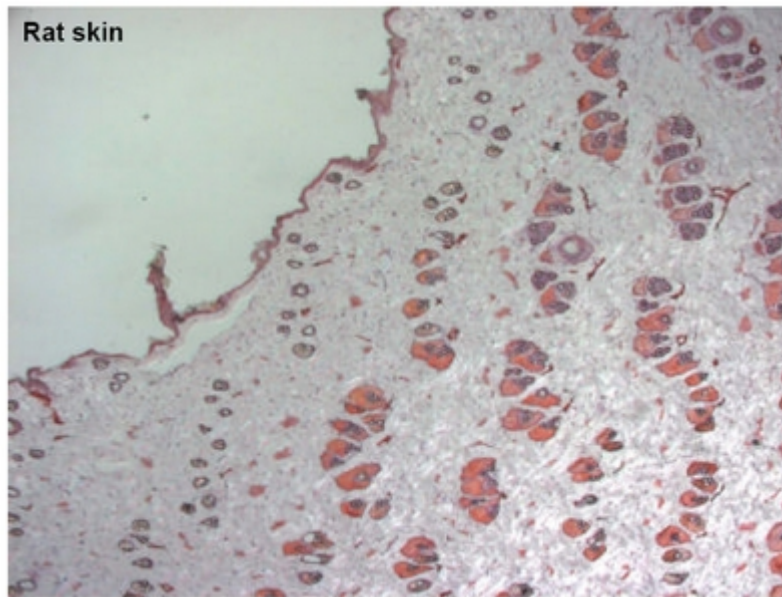
**Pictures:**

**Figure 1.** Staining of mouse colon using a CD31 antibody (green) and Lyve-1 antibody (red). Pictured originate from Dr. Ulrike Fiedler and Stefanie Koidel, Dept. of Vascular Biology and Angiogenesis Research Tumor Biology center, Freiburg, Germany.

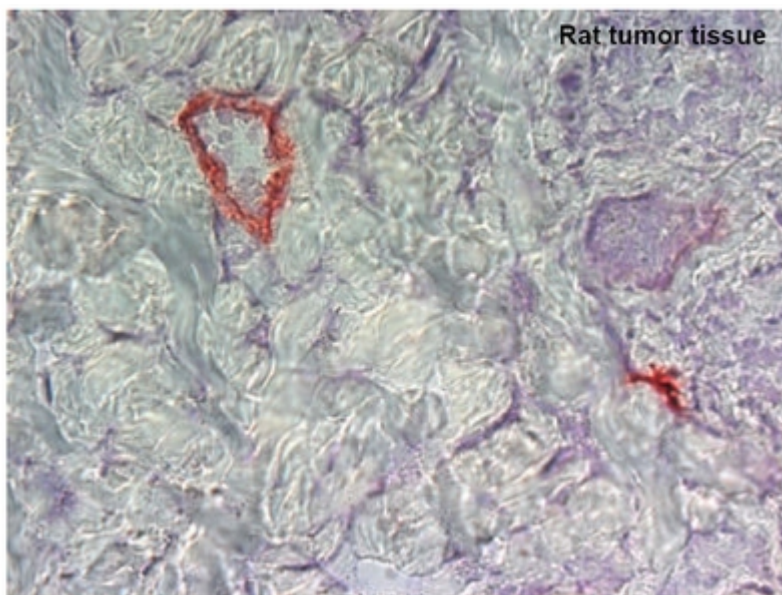
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**Figure 2.** Immunohistochemistry with Cryo sections from Rat Skin using anti-Mouse LYVE-1 antibody (DP3513/DP3513S)



**Figure 3.** Immunohistochemistry with Cryo sections from Rat Tumor Tissue using anti-Mouse LYVE-1 antibody (DP3513/DP3513S)

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