Datasheet for ABIN115690

anti-LYVE1 antibody (AA 24-226)

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Overview

Quantity:	0.1 mg
Target:	LYVE1
Binding Specificity:	AA 24-226
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LYVE1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	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).
Specificity:	This antibody detetcs Lyve-1.
Cross-Reactivity (Details):	Species reactivity (tested):Mouse. This antibody is not reactive with Human LYVE-1.
Purification:	Protein G Chromatography (+ his tag depletetion)

Target Details

Target:	LYVE1
Alternative Name:	LYVE-1 (LYVE1 Products)

Target Details

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- esidue 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- 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 lymphspecific HA receptor to be characterized and is a uniquely powerful marker for lymph vessels themselves.Synonyms: 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
Gene ID:	114332
NCBI Accession:	NP_444477
UniProt:	Q8BHC0
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	ELISA (1-15 µg/mL). Western blot (1-2 µg/mL). FACS analysis (3-20 µg/mL). Immunohistochemistry on Frozen Sections (1-5 µg/mL). For formalin-fixed, paraffin-embedded sections use the immunogen affinity purifiedantibody ABIN115689. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in sterile water/PBS to a concentration of > 0.5 mg/mL.
Buffer:	PBS, pH 7.2 without preservatives or stabilizers
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	The lyophilized IgG is stable at 2-8 °C for one month and at -20 °C for longer. When

Handling

reconstituted the antibody is stable for at least six weeks at 2-8 °C. For longer store in aliquots at -20 °C.

Publications

Product cited in:

Rivera-Pagán, Rivera-Aponte, Melnik-Martínez, Zayas-Santiago, Kucheryavykh, Martins, Cubano, Skatchkov, Eaton: "Up-regulation of TREK-2 potassium channels in cultured astrocytes requires de novo protein synthesis: relevance to localization of TREK-2 channels in astrocytes after transient cerebral ischemia." in: **PLoS ONE**, Vol. 10, Issue 4, pp. e0125195, (2016) (PubMed).

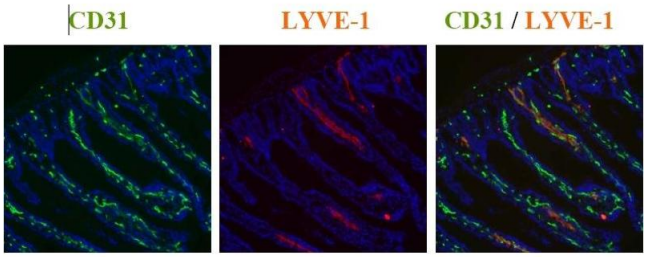
Rangel-Moreno, de la Luz Garcia-Hernandez, Ramos-Payan, Biear, Hernady, Sangster, Randall, Johnston, Finkelstein, Williams: "Long-Lasting Impact of Neonatal Exposure to Total Body Gamma Radiation on Secondary Lymphoid Organ Structure and Function." in: **Radiation research**, Vol. 184, Issue 4, pp. 352-66, (2015) (PubMed).

Tamhane, Arampatzidou, Gerganova, Tacke, Illukkumbura, Dauth, Schaschke, Peters, Reinheckel, Brix: "The activity and localization patterns of cathepsins B and X in cells of the mouse gastrointestinal tract differ along its length." in: **Biological chemistry**, Vol. 395, Issue 10, pp. 1201-19, (2015) (PubMed).

Göttle, Sabo, Heinen, Venables, Torres, Tzekova, Parras, Kremer, Hartung, Cate, Küry: " Oligodendroglial maturation is dependent on intracellular protein shuttling." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 35, Issue 3, pp. 906-19 , (2015) (PubMed).

Schoenherr, Saul, Whiteaker, Yan, Whiteley, Paulovich: "Anti-peptide monoclonal antibodies generated for immuno-multiple reaction monitoring-mass spectrometry assays have a high probability of supporting Western blot and ELISA." in: **Molecular & cellular proteomics : MCP**, Vol. 14, Issue 2, pp. 382-98, (2015) (PubMed).

There are more publications referencing this product on: Product page



Immunofluorescence

Image 1. Staining of mouse colon using a CD31 antibody (green) and Lyve-1 antibody (red).