Datasheet for ABIN1589924

anti-LYVE1 antibody

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Overview

Quantity:	100 µg
Target:	LYVE1
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LYVE1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Acetone-fixed) (IHC (af))

Product Details

Purpose:	Lyve-1 antibody
Immunogen:	Recombinant mouse soluble Lyve-1 (ABIN1589750)
Isotype:	IgG
Specificity:	Recombinant mouse soluble Lyve-1
Characteristics:	Chromosomal location: 7, 7F2 Produced from sera of rabbits immunized with highly pure recombinant mouse soluble LYVE-1 produced in insect cells. The recombinant soluble LYVE-1 consists of amino acid 24 (Ala) to 228 (Gly) and is fused to a C-terminal His-tag (6xHis).
Purification:	Protein-A purified

Target Details

Target:	LYVE1
Alternative Name:	Lyve-1 (LYVE1 Products)
Background:	Lyve1, Xlkd1, Lyve-1, Crsbp-1, 1200012G08Rik,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.
Gene ID:	114332
NCBI Accession:	NM_053247, NP_444477
UniProt:	Q8BHC0
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Western Blot: use at 2-5 µg/mL, FACS: use at 3-10 µg/mL, IF/IHC: applicable with cryo-sections.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL.
Buffer:	PBS
Handling Advice:	Centrifuge vial prior to opening.
Storage:	4 °C,-20 °C
Storage Comment:	The lyophilized antibody is stable for at least 2 years at -20°C. After sterile reconstitution the antibody is stable at 2-8°C for up to 6 months. Frozen aliquots are stable for at least 6 months when stored at -20°C. Addition of a carrier protein or 50% glycerol is recommended for frozen aliquots.

Handling

Expiry Date:	24 months

Publications

Product cited in:

Lohrberg, Wilting: "The lymphatic vascular system of the mouse head." in: **Cell and tissue research**, (2016) (PubMed).

Eshita, Ji, Onishi, Kobayashi, Mizuno, Yoshida, Kubota, Onishi: "Medicinal facilities to B16F10 melanoma cells for distant metastasis control with a supramolecular complex by DEAE-dextran-MMA copolymer/paclitaxel." in: **Drug delivery and translational research**, Vol. 5, Issue 1, pp. 38-50, (2015) (PubMed).

Pang, Georgoudaki, Lambut, Johansson, Tabor, Hagikura, Jin, Jansson, Alexander, Nelson, Jakobsson, Betsholtz, Sund, Karlsson, Fuxe: "TGF-?1-induced EMT promotes targeted migration of breast cancer cells through the lymphatic system by the activation of CCR7/CCL21-mediated chemotaxis." in: **Oncogene**, (2015) (PubMed).

Wawrzyniak, Pich, Gross, Schütz, Fleury, Quemener, Sgandurra, Bouchaert, Moret, Mury, Rommens, Mottaz, Dombrowicz, Michalik: "Endothelial, but not smooth muscle, peroxisome proliferator-activated receptor ?/? regulates vascular permeability and anaphylaxis." in: **The Journal of allergy and clinical immunology**, Vol. 135, Issue 6, pp. 1625-35.e5, (2015) (PubMed).

Grzegorek, Drozdz, Chmielewska, Gomulkiewicz, Jablonska, Piotrowska, Karczewski, Janczak, Podhorska-Okolow, Dziegiel, Szuba: "Arterial wall lymphangiogenesis is increased in the human iliac atherosclerotic arteries: involvement of CCR7 receptor." in: **Lymphatic research and biology**, Vol. 12, Issue 4, pp. 222-31, (2014) (PubMed).

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