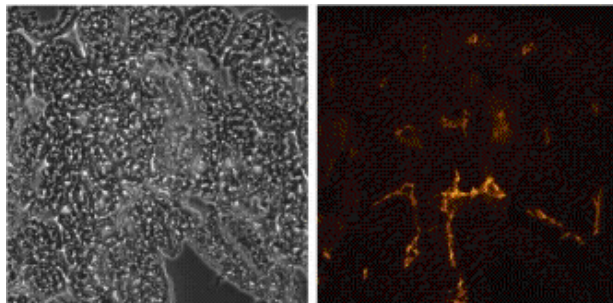


Anti-Mouse Lyve-1 Purified

Catalog Number: 14-0443

Also Known As: Lymphatic Vessel Endothelial Hyaluronan Receptor 1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Immunohistochemistry of cryosections of mouse intestine at 2.5 ug/ml of anti-mouse LYVE-1 antibody followed by Anti-Rat IgG Rhodamine (cat. 26-4826) (right). Phase image of same field (left).

Product Information

Contents: Anti-Mouse Lyve-1 Purified

REF **Catalog Number:** 14-0443

Clone: ALY7

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The monoclonal antibody ALY7 recognizes mouse LYVE-1, a transmembrane glycoprotein with similarity to CD44. The extracellular domain contains a conserved hyaluronan binding domain also found in CD44. Expression is found on lymphatic and liver endothelial cells and some populations of macrophages. The lymphatic system is responsible for transporting proteins and cells (especially dendritic cells) to tissues throughout the body, thereby acting as immune surveyors. LYVE-1 is one characteristic protein, along with podoplanin, PROX-1, Tie-2 and VEGFR-3, that is expressed on lymphatic endothelial cells (LECS). The ligand for LYVE-1 is hyaluronan, a large mucopolysaccharide. Although LYVE-1 can bind hyaluronan *in vitro*, the site for ligand binding *in vivo* is masked by sialylated O-linked glycan chains. It is postulated that binding to ligand requires modification/unmasking to expose the binding site. The development and remodeling of the endothelium after injury is an area of extensive study. When transplanted, hematopoietic stem cells (HSCs) can give rise to LECs that integrate into the endothelium in normal and metastatic tissue.

Applications Reported

This ALY7 antibody has been reported for use in flow cytometric analysis and immunohistologic staining of frozen tissue sections.

Applications Tested

This ALY7 antibody has been tested by flow cytometric analysis of transfected cell line or immunofluorescent microscopy of cryosections of mouse intestine. This can be used at less than or equal to 0.125 µg per million cells in a 100 µl total staining volume for flow cytometry and 2.5 µg/ml for immunofluorescent microscopy. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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14-4301 Rat IgG1 K Isotype Control Purified

26-4826 Anti-Rat IgG TRITC (polyclonal)

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