

LYVE1 Monoclonal Antibody (ALY7), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ALY7
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1724157

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	6 Publications

Product Specific Information

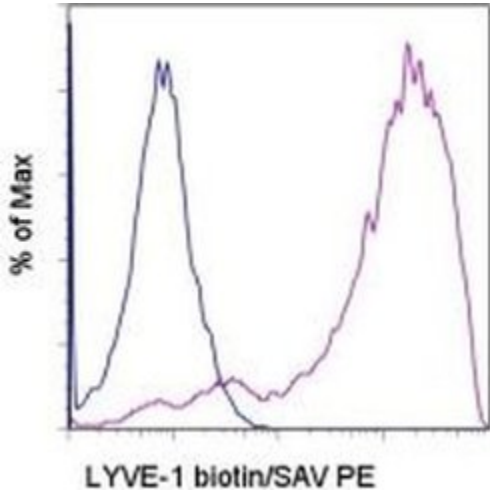
Description: The monoclonal antibody ALY7 recognizes mouse LYVE-1, a transmembrane glycoprotein with similarity to CD44. The extracellular domain contains a conserved hyaluronan binding domain also found in CD44. Expression is found on lymphatic and liver endothelial cells and some populations of macrophages. 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 immunohistology staining of frozen tissue sections.

Applications Tested: This ALY7 antibody has been tested by flow cytometric analysis of LYVE-1/GFP co-transfected cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For LYVE1 Monoclonal Antibody (ALY7), Biotin, eBioscience™



LYVE1 Antibody (13-0443-82) in Flow

Staining of LYVE-1 transfected cells with 0.06 µg of Rat IgG1 kappa Isotype Control Biotin (Product # 13-4301-82) (blue histogram) or 0.06 µg of Anti-Mouse Lyve-1 Biotin (purple histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

19 References

Immunohistochemistry (10)

Scientific reports

Integrins mediate placental extracellular vesicle trafficking to lung and liver in vivo.

"Published figure using LYVE1 monoclonal antibody (Product # 13-0443-82) in Immunohistochemistry"

Authors: Nguyen SL,Ahn SH,Greenberg JW,Collaer BW,Agnew DW,Arora R,Petroff MG

Species
Not Applicable

Dilution
Not Cited

Year
2021

Frontiers in physiology

Complex Non-sinus-associated Pachymeningeal Lymphatic Structures: Interrelationship With Blood Microvasculature.

"Published figure using LYVE1 monoclonal antibody (Product # 13-0443-82) in Immunofluorescence"

Authors: Glinskii OV,Huxley VH,Xie L,Bunyak F,Palaniappan K,Glinsky VV

Species
Not Applicable

Dilution
Not Cited

Year
2020

[View more IHC references on thermofisher.com](#)

Immunohistochemistry (PFA fixed) (1)

Cell death & disease

Epigenetic priming by Dot1l in lymphatic endothelial progenitors ensures normal lymphatic development and function.

"13-0443-82 was used in Immunohistochemistry (PFA fixed), Immunohistochemistry to assess the regulatory role of mouse Dot1l, a histone H3 lysine (K) 79 (H3K79) methyltransferase, in lymphatic formation."

Authors: Yoo H, Lee YJ, Park C, Son D, Choi DY, Park JH, Choi HJ, La HW, Choi YJ, Moon EH, Saur D, Chung HM, Song H, Do JT, Jang H, Lee DR, Park C, Lee OH, Cho SG, Hong SH, Kong G, Kim JH, Choi Y, Hong K

Species
Mouse

Dilution
Not Cited

Year
2020

Immunocytochemistry (2)

Journal of leukocyte biology

Long-term consequences of topical dexamethasone treatment during acute corneal HSV-1 infection on the immune system.

"Published figure using LYVE1 monoclonal antibody (Product # 13-0443-82) in Immunofluorescence"

Authors: Chucair-Elliott AJ, Carr MM, Carr DJJ

Species
Not Applicable

Dilution
Not Cited

Year
2017

More applications with references on thermofisher.com

Flow (6)

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