

LYVE1 Monoclonal Antibody (ALY7), eFluor 570, 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), eFluor 570, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ALY7
Conjugate	eFluor® 570
Form	Liquid
Concentration	0.2 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_2573596

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	9 Publications
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	-	1 Publication

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.

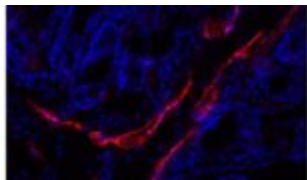
Applications Reported: This ALY7 antibody has been reported for use in immunocytochemistry and immunohistochemical staining of frozen tissue sections (IHC-F).

Applications Tested: This ALY7 antibody has been tested immunohistochemistry on frozen, fixed mouse intestine at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

Excitation: 555 nm; Emission: 570 nm

Product Images For LYVE1 Monoclonal Antibody (ALY7), eFluor 570, eBioscience™



LYVE1 Antibody (41-0443-82) in IHC (F)

Immunohistochemistry on frozen, fixed mouse intestine using 5 µg/mL Anti-Mouse Lyve-1 eFluor® 570. Nuclei are stained with DAPI.

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

12 References

Immunohistochemistry (9)

Scientific reports

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

"Published figure using LYVE1 monoclonal antibody (Product # 41-0443-82) 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 # 41-0443-82) 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 (Frozen) (1)

Nature communications

Pathological lymphangiogenesis is modulated by galectin-8-dependent crosstalk between podoplanin and integrin-associated VEGFR-3.

"41-0443 was used in Immunofluorescence on frozen tissues to investigate pathological lymphangiogenesis, showing that it is modulated by galectin-8-dependent crosstalk between podoplanin and integrin-associated VEGFR-3."

Authors: Chen WS,Cao Z,Sugaya S,Lopez MJ,Sendra VG,Laver N,Leffler H,Nilsson UJ,Fu J,Song J,Xia L,Hamrah P,Panjwani N

Species
Mouse

Dilution
Not Cited

Year
2016

Immunocytochemistry (1)

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 # 41-0443-82) 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 (1)

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