

# LYVE1 Monoclonal Antibody (ALY7), eFluor 615, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	ALY7
Conjugate	eFluor® 615
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_10804146

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	1 µg/mL	-
Immunocytochemistry (ICC/IF)	Assay-Dependent	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 sialyated 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 immunohistochemical (IHC-F) staining.

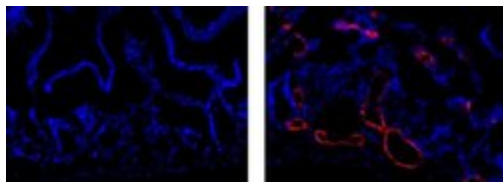
**Applications Tested:** This ALY7 antibody has been tested by immunohistochemistry on fixed frozen mouse intestinal tissue (IHC-F) at less than or equal to 1 µg/mL. This product has not been validated for flow cytometric analysis.

**Filter Recommendation:** When using this eFluor® 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor® 594 filter is acceptable.

Excitation: 595 nm; Emission: 615 nm.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For LYVE1 Monoclonal Antibody (ALY7), eFluor 615, eBioscience™



### LYVE1 Antibody (42-0443-82) in IHC (F)

Immunohistochemistry on frozen, fixed mouse intestine using 1 µg/mL Rat IgG1 Isotype Control eFluor® 615 (left) or 1 µg/mL Anti-Mouse Lyve-1 eFluor® 615 (right). Nuclei are counterstained with DAPI.

[View more figures on thermofisher.com](#)

## 9 References

### Immunohistochemistry (8)

#### Scientific reports

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

"Published figure using LYVE1 monoclonal antibody (Product # 42-0443-82) 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 # 42-0443-82) in Immunofluorescence"

Authors: Gliinskii 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](#)

### 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 # 42-0443-82) 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](#)

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