



LYVE1 Polyclonal Antibody, DyLight 488

Catalog Number PA5-22787

Product Data Sheet

Details		Species Reactivity	
Size	100µL	Tested species reactivity	Human, Mouse
Host / Isotype	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal	Western Blot (WB)	2 µg/ml
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	A synthetic peptide made to a C-terminal portion of the human LYVE-1 protein sequence (between residues 250-322).		
Conjugate	DyLight® 488		
Form	Liquid		
Concentration	0.8mg/ml		
Purification	Antigen affinity chromatography		
Storage Buffer	50mM sodium borate		
Contains	0.05% sodium azide		
Storage Conditions	4° C, store in dark		

Product Specific Information

Suggested positive control: mouse spleen lysate.

Background/Target Information

The lymphatic vasculature forms a second circulatory system that drains extracellular fluid from the tissues and provides an exclusive environment in which immune cells can encounter and respond to foreign antigen. Recently a number of interesting molecules have been identified that may be exploited as markers for lymphatic endothelium, including the hyaluronan receptor LYVE1, PALE, VEGFR3, and podoplanin. LYVE1 has been identified as a major receptor for HA (extracellular matrix glycosaminoglycan hyaluronan) on the lymph vessel wall. The deduced amino acid sequence of LYVE1 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 LYVE1 molecule binds both soluble and immobilized HA. However, unlike CD44, the LYVE1 molecule colocalizes with HA on the luminal face of the lymph vessel wall and is completely absent from blood vessels. Hence, LYVE1 is the first lymph-specific HA receptor to be characterized and is a uniquely powerful marker for lymph vessels themselves.

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