Data Sheet (Cat.No.TMAB-01092)

Anti-LYVE1 Antibody (7P115)

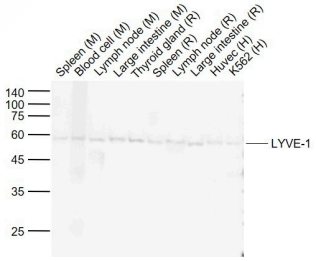
Product Details

Ig Type:	IgG
Reactivity:	Mouse
Molecular Weight:	Theoretical: 32 kDa.
Clone:	7P115
Purification:	Protein A purified

Applications

Verified Activity:

Sample:
Lane 1: Mouse Spleen tissue lysates
Lane 2: Mouse Blood cell lysates
Lane 3: Mouse LympHnode tissue lysates
Lane 4: Mouse Large intestine tissue lysates
Lane 5: Rat Thyroid gland tissue lysates
Lane 6: Rat Spleen tissue lysates
Lane 7: Rat LympHnode tissue lysates
Lane 8: Rat Large intestine tissue lysates
Lane 9: Human Huvec cell lysates
Lane 10: Human K562 cell lysates
Primary: Anti-LYVE-1 (TMAB-01092) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 32 kDa
Observed band size: 58 kDa



Application:	WB
Recommended	WB=1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: mouse LYVE1
Antigen Species:	Mouse
Gene ID:	114332
Uniprot ID:	Q8BHC0
Synonyms:	CRSBP-1;CRSBP1;Hyaluronic acid receptor;Cell surface retention sequence-binding protein 1;Extracellular link domain-containing protein 1;XLKD1;HAR;Lymphatic vessel endothelial hyaluronic acid receptor 1;LYVE-1
Biology Area:	Endothelial Cell Markers,Endothelium

Research Background

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, 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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