

bs-20120R**[Primary Antibody]****LYVE-1 Rabbit pAb****Bioss**
ANTIBODIES

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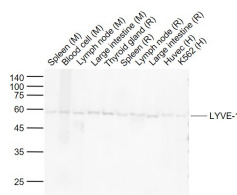
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— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 10894 Target: LYVE-1 Immunogen: KLH conjugated synthetic peptide derived from human LYVE-1: 1-100/322. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. 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.	Isotype: IgG SWISS: Q9Y5Y7 Applications: WB (1:500-2000) ELISA (1:5000-10000) Reactivity: Human, Mouse, Rat Predicted MW.: 32 kDa Subcellular Location: Extracellular matrix ,Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Sample: Lane 1: Mouse Spleen tissue lysates
Lane 2: Mouse Blood cell lysates Lane 3: Mouse
Lymph node 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 Lymph node 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 (bs-20120R) at
1/1000 dilution Secondary: IRDye800CW Goat
Anti-Rabbit IgG at 1/20000 dilution Predicted
band size: 32 kD Observed band size: 58 kD

— SELECTED CITATIONS —

- **[IF=10.19]** Xianqiang Li. et al. Menthol nanoliposomes enhanced anti-tumor immunotherapy by increasing lymph node homing of dendritic cell vaccines. CLIN IMMUNOL. 2022 Sep;;109119 IF ;Rat. 36109005
- **[IF=4.9]** Ayana Ikari. et al. Role of CD44-Positive Extracellular Vesicles Derived from Highly Metastatic Mouse Mammary Carcinoma Cells in Pre-Metastatic Niche Formation. INT J MOL SCI. 2024 Jan;25(17):9742 WB,IF ;Mouse. 39273689