bs-20120R **[Primary Antibody]**

LYVE-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 10894 **SWISS:** Q9Y5Y7

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.

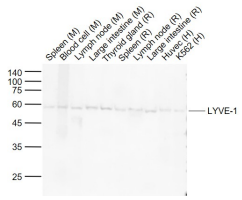
Applications: **WB** (1:500-2000)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat

Predicted MW.: 32 kDa

Subcellular Location: Extracellular matrix ,Cell membrane ,Cytoplasm

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