bs-1311R

[Primary Antibody]

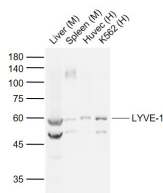# LYVE-1 Rabbit pAb

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— DATASHEET —

Host: Rabbit

Clonality: Polyclonal

GeneID: 114332

Target: LYVE-1

Immunogen: KLH conjugated synthetic peptide derived from mouse LYVE-1 terminus: 231-318/318.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4℃. Store at -20℃ 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: Q8BHC0

Applications: WB (1:500-2000)

Reactivity: Human, Mouse (predicted: Rat)

Predicted MW.: 32 kDa

Subcellular Location: Extracellular matrix ,Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Mouse Spleen tissue lysates Lane 3: Human Huvec cell lysates Lane 4: Human K562 cell lysates Primary: Anti- LYVE-1 (bs-1311R) 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=3.3]** Merigo et al. Glucose transporter expression in the human colon. (2018) World.J.Gastroenterol. 24:775-793 IHC ;Human. 29467549

- **[IF=1.68]** Sun, Y., et al. "A Reproducible In-vivo Model of Lymphatic Malformation in Rats." Journal of comparative

pathology 145.4 (2011): 390-398. IHC ;="Rat". 21419420

- **[IF=2.11]** Zhang, Chun, et al. "MTDH/AEG-1-based DNA vaccine suppresses metastasis and enhances chemosensitivity to paclitaxel in pelvic lymph node metastasis."Biomedicine & Pharmacotherapy (2015). IHC ;="Mouse". 25776504

- **[IF=1.935]** Hayashi T et al. Characteristics of Leiomyosarcoma: Induction of Hematogenous Metastasis by Isolated Uterine Mesenchymal Tumor Stem-like Cells Anticancer Res. 2020 Mar;40(3):1255-1265. IHC ;human. 32132022

- **[IF=0]** Michurina et al. Linagliptin alleviates fatty liver disease in diabeticdb/dbmice. (2016) World.J.Diabetes. 7:534-546 IHC ;Mouse. 27895822