bs-4916R **[Primary Antibody]**

CD44 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 12505 **SWISS:** P15379

Target: CD44

Immunogen: KLH conjugated synthetic peptide derived from mouse CD44/HCAM/PGP1: 231-330/778.

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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul 2008].

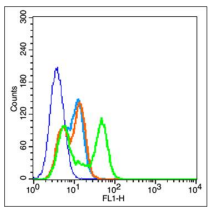
Applications: **Flow-Cyt** (1µg/Test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Sheep, Cow, Dog, Horse)

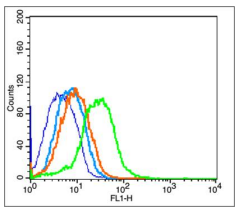
Predicted MW.: 85 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Blank control(blue):A549 (fixed with 2% paraformaldehyde for 10 min at 37°C). Primary Antibody:Rabbit Anti-CD44 antibody (bs-4916R,Green); Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.



Blank control(blue):Mouse spleen (fixed with 2% paraformaldehyde for 10 min at 37°C). Primary Antibody:Rabbit Anti-CD44 antibody (bs-4916R,Green); Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

SELECTED CITATIONS

- **[IF=18.2]** Tingkui Zhao. et al. A Triple-Targeted Rutin-Based Self-Assembled Delivery Vector for Treating Ischemic Stroke by Vascular Normalization and Anti-Inflammation via ACE2/Ang1-7 Signaling. ACS CENTRAL SCI. 2023;XXXX(XXX):XXX-XXX FCM,IHC ;Rat,Human. 37396868
- **[IF=10.761]** Weizhou Jiang. et al. An all-silk-derived bilayer hydrogel for osteochondral tissue engineering. MATER TODAY BIO. 2022 Dec;17:100485 IHC ;Rat. 10.1016/j.mtbio.2022.100485

- **[IF=7.328]** Dongdong Yao. et al. Matrix stiffness regulates bone repair by modulating 12-lipoxygenase-mediated early inflammation. Mat Sci Eng C-Mater. 2021 Sep;128:112359 IF ;Mouse. 34474906
- **[IF=5.631]** Zhang, Yanlin. et al. Histone H4 induces heparan sulfate degradation by activating heparanase in chlorine gas-induced acute respiratory distress syndrome. Resp Res. 2022 Dec;23(1):1-12 IF,IHC ;Mouse,Human. 35073921
- **[IF=6.317]** Hirona Kugo. et al. Eicosapentaenoic acid is associated with the attenuation of dysfunctions of mesenchymal stem cells in the abdominal aortic aneurysm wall. FOOD FUNCT. 2022 Jun;: IHC ;Rat. 35766346