bs-4310R **[Primary Antibody]**

VE Cadherin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1003 **SWISS:** P33151

Target: VE Cadherin

Immunogen: KLH conjugated synthetic peptide derived from human VE Cadherin: 251-320/784. < Extracellular >

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: bs-0878P is one synthetic peptide derived from mouse Vascular endothelial cell cadherin.
This gene is a classical cadherin from the cadherin superfamily and is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008].

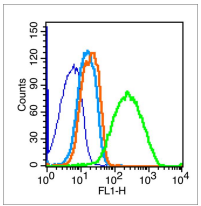
Applications: **Flow-Cyt** (1µg/Test)

Reactivity: Human, Mouse (predicted: Rat, Pig, Cow, Horse)

Predicted MW.: 81 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Blank control (blue line): Mouse kidney (blue). Primary Antibody (green line): Rabbit Anti-VE Cadherin antibody (bs-4310R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): F(ab')2 fragment goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 70% ice-cold methanol overnight at 4°C.Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=16.6]** Liu Jiayu. et al. Endothelial discoidin domain receptor 1 senses flow to modulate YAP activation. NAT COMMUN. 2023 Oct;14(1):1-20 IF ;Mouse. 37833282
- **[IF=6.064]** Xing Pei. et al. Cardiac-derived stem cell engineered with constitutively active HIF-1α gene enhances blood perfusion of hindlimb ischemia. J Ind Eng Chem. 2021 Sep;: FCM ;Mouse. 10.1016/j.jiec.2021.09.020
- **[IF=4.627]** Zhai L et al. Aerobic and resistance training enhances endothelial progenitor cell function via upregulation of caveolin-1 in mice with type 2 diabetes. Stem Cell Res Ther. 2020 Jan 3;11(1):10. ICC ;Mouse. 31900223
- **[IF=4.5]** Yang Liu. et al. Octreotide modified liposomes that co-deliver paclitaxel and neferine effectively inhibit ovarian cancer metastasis by specifically binding to the SSTR2 receptors. J DRUG DELIV SCI TEC. 2024 Sep;98:105851 IF ;Mouse. 10.1016/j.jddst.2024.105851
- **[IF=3.743]** Chen Q et al. Sini decoction ameliorates sepsis-induced acute lung injury via regulating ACE2-Ang (1-7)-Mas axis and inhibiting the MAPK signaling pathway. Biomed Pharmacother. 2019 Jul;115:108971. WB ;Mouse&Human. 31102910