bs-4754R **[Primary Antibody]**

VWF Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7450 **SWISS:** P04275

Target: VWF

Immunogen: KLH conjugated synthetic peptide derived from human Von Willebrand Factor: 351-450/2813.

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: Von Willebrand Factor (VWF) was previously known as Factor VIII related antigen. VWF is synthesized exclusively by endothelial cells and megakaryocytes, and stored in the intracellular granules or constitutively secreted into plasma. This glycoprotein functions as both an antihemophilic factor carrier and a platelet vessel wall mediator in the blood coagulation system. Important in the maintenance of homeostasis, it participates in platelet vessel wall interactions by forming a noncovalent complex with coagulation factor VIII at the site of vascular injury. The Von Willebrand factor has functional binding domains to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. Mutations in this gene or deficiencies in this protein result in Von Willebrand's disease. VWD is characterized by frequent bleeding (gingival, minor skin quantitative lacerations, menorrhagia, etc.).

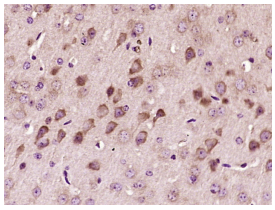
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (3ug/Test)

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

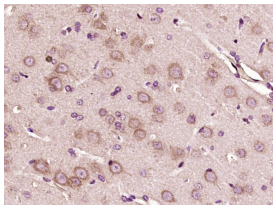
Predicted MW.: 81/309 kDa

Subcellular Location: Secreted ,Extracellular matrix

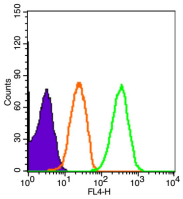
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (von Willebrand antigen 2) Polyclonal Antibody, Unconjugated (bs-4754R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (von Willebrand antigen 2) Polyclonal Antibody, Unconjugated (bs-4754R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control (Black line): HUVEC(Black). Primary Antibody (green line): Rabbit Anti-von Willebrand antigen 2 antibody (bs-4754R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=17.694]** Tanaka Miwa. et al. ASPSCR1::TFE3 orchestrates the angiogenic program of alveolar soft part sarcoma. NAT COMMUN. 2023 Apr;14(1):1-16 WB ;Mouse. 37029109
- **[IF=10.684]** Fei Sun. et al. Biomimetic in situ tracheal microvascularization for segmental tracheal reconstruction in one-step. BIOENG TRANSL MED. 2023 May;:e10534 IF ;Rat. 10.1002/btm2.10534
- **[IF=7.3]** Shi Xin. et al. The bone marrow endothelial progenitor cell response to septic infection. FRONT IMMUNOL. 2024 Apr;15: IF ;Mouse. 38665923
- **[IF=4.8]** Ting Shu. et al. Sensitive electrochemical detection of von Willebrand factor using an immunosensor comprising 7,7,8,8-tetracyanoquinodimethane and nickel-based metal–organic framework. MICROCHEM J. 2023 Sep;:109351 Other ;Human. 10.1016/j.microc.2023.109351
- **[IF=2.73]** Xenia Kraus. et al. A pre-conditioning protocol of peripheral blood derived endothelial colony forming cells for endothelialization of tissue engineered constructs. Microvasc Res. 2021 Mar;134:104107 IHC ;Human. 33212112