BOSTER
antibody and ELISA experts

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Anti-Von Willebrand Factor/VWF Antibody Picoband®

Catalog Number: PB9273

About VWF

Von Willebrand factor (VWF) is a blood glycoprotein involved in hemostasis. It is mapped to 12p13.31. The VWF gene encodes von Willebrand factor (VWF), a large multimeric glycoprotein that plays a central role in the blood coagulation system, serving both as a major mediator of platelet-vessel wall interaction and platelet adhesion, and as a carrier for coagulation factor VIII. VWF released from endothelial cell Weibel-Palade bodies bound particularly avidly to the extracellular matrix. VWF deficiency or dysfunction (von Willebrand disease) leads to a bleeding tendency, which is most apparent in tissues having high blood flow shear in narrow vessels.

Overview

Product Name	Anti-Von Willebrand Factor/VWF Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Von Willebrand Factor/VWF Antibody Picoband® catalog # PB9273. Tested in IF, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q8CIZ8

Technical Details

Immunogen	E.coli-derived mouse VWF recombinant protein (Position: M1304-E1452).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

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Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat Immunofluorescence, 2ug/ml, Rat

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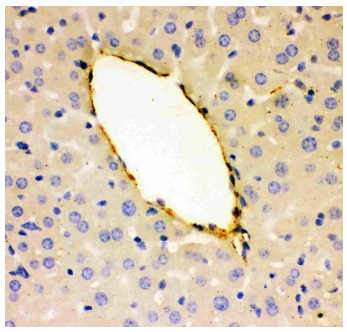
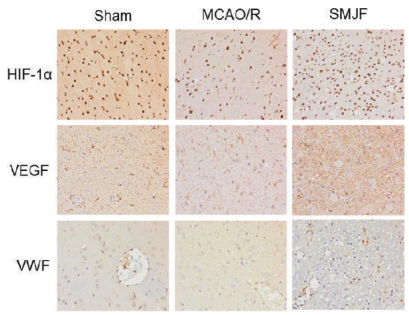
Anti-Von Willebrand Factor/VWF Antibody Picoband® (PB9273) Images

Anti-VWF Picoband antibody, PB9273, Western blottingAll lanes: Anti VWF (PB9273) at 0.5ug/mlWB: Recombinant Mouse VWF Protein 0.5ngPredicted bind size: 37KDObserved bind size: 37KD

Anti-VWF Picoband antibody, PB9273, Western blottingAll lanes: Anti VWF (PB9273) at 0.5ug/mlWB: Mouse Lung Tissue Lysate at 50ugPredicted bind size: 309KDObserved bind size: 309KD



Anti-VWF Picoband antibody, PB9273, IHC(P)IHC(P): Mouse Liver Tissue



Representative images showed IHC staining of HIF-1alpha, VEGF, and vWF in the cerebral cortex (magnification 400 ×) Index in PubMed under a CC BY license. PMID: 38600597

The detection of ovarian angiogenesis in different treatment groups at day 28 after transplantation. a Histochemical images displayed vWF- and CD34-positive cells in ovarian stroma from different treatment groups. Scale bar 50 um and 25 um. b MVD quantification determined by CD34- and vWF-positive cells showed the number of microvessels in ovarian sections of the different groups. * p

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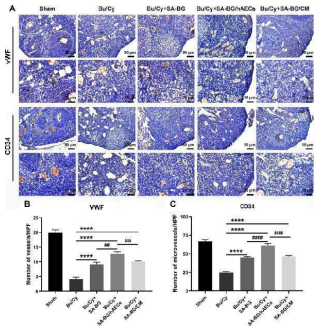
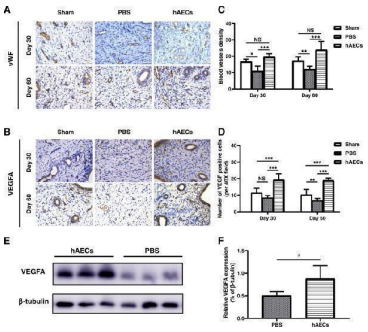
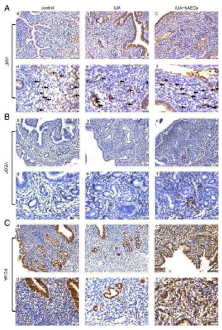
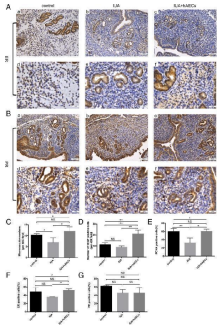




Effects of hAECs on angiogenesis in the injured uteruses. a IHC staining of von Willebrand factor (vWF) reflected the blood vessel density in the uterine scars of different groups at day 30 and 60 after injection of hAECs or PBS (n = 8 uterine horns per group). Scale bars = 25 um. b IHC staining of VEGFA in the uterine scars at day 30 and 60 after injection of hAECs or PBS in different groups (n = 8 uterine horns per group). Scale bars = 25 um. c Statistical analysis of the blood vessel density indicated by vWF-positive staining. d The VEGFA expression level was semi-qualified by calculating the percentage of positive cells per field under a magnification of × 400. e Western blot analysis showed that VEGFA expression of the uterine scars in the hAECs group and PBS group at day 5 after injection of hAECs or PBS. f The grayscale values of the western blots were analyzed. The protein level of VEGFA was normalized to that of beta-tubulin (n = 5) (* P



hAECs facilitated endometrial recovery in the IUA model. A IHC staining of vWF reflected the MVD of the endometrium. The microvessels, which were vWF-positive, are indicated by arrows in the figure. MVD was reduced in the IUA group and increased in the hAEC-treated group. B IHC staining showed that the expression of VEGF was higher in the hAEC-treated group than in the IUA group. C The expression of PCNA decreased in the IUA group and reached almost normal levels in the hAEC-treated group. a–c, scale bar = 100 um; d–f, scale bar = 50 um Index in PubMed under a CC BY license. PMID: 31412924



hAECs facilitated endometrial recovery in the IUA model. A According to IHC staining, the number of ER-positive cells was higher in the hAEC-treated group than in the IUA group. B There was no difference in PR expression among these three groups. C VEGF expression was semi-quantified, and the number of positive cells per field was calculated. D MVD was valued by counting microvascular vessels, which were vWF-positive. E – G . PCNA, ER, and PR expression levels were semi-quantified by calculating the percentage of positive cells per field (* p

IHC analysis of VWF using anti-VWF antibody (PB9273). VWF was detected in paraffin-embedded section of rat lung tissues. Heat mediated antigen retrieval was performed in

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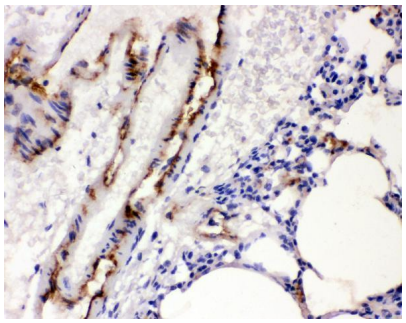
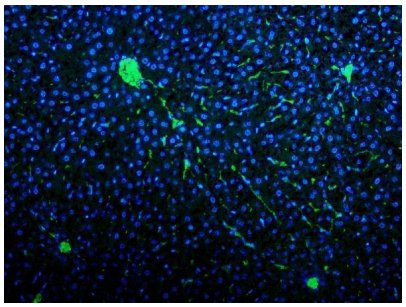
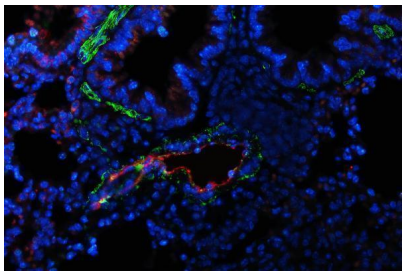


citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-VWF Antibody (PB9273) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IF analysis of VWF using anti-VWF antibody (PB9273). VWF was detected in paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/mL rabbit anti-VWF Antibody (PB9273) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of VWF and alpha-Smooth Muscle Actin using anti-VWF antibody (PB9273) and anti-alpha-Smooth Muscle Actin antibody (MA1106). VWF and alpha-Smooth Muscle Actin a paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/mL rabbit anti-VWF antibody (PB9273) and mouse anti-alpha-Smooth Muscle Actin Antibody (MA1106) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) were used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

37 Publications Citing This Product

1. PubMed ID: PMID:26191130, Calcium signaling is implicated in the diffuse axonal injury of brain stem

2. PubMed ID: 10.12659/MSM.915442, Identification and Analysis of Differentially Expressed Genes in Human Saphenous Vein Endothelial Cells Overexpressing Domain-Containing mTOR-Interacting Protein (DEPTOR) by RNA-Seq

3. PubMed ID: 10.3892/etm.2014.1774, Construction of tissue‐engineered bone using a bioreactor and platelet‐rich plasma

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