

Datasheet for ABIN3042328
anti-VWF antibody (AA 2535-2813)



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Overview

Quantity:	100 µg
Target:	VWF
Binding Specificity:	AA 2535-2813
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This VWF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for von Willebrand factor(VWF) detection. Tested with WB, IHC-P in Human.
Immunogen:	E.coli-derived human VWF recombinant protein (Position: R2535-K2813). Human VWF shares 79% amino acid (aa) sequence identity with mouse VWF.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for von Willebrand factor(VWF) detection. Tested with WB, IHC-P in Human.</p> <p>Gene Name: von Willebrand factor</p> <p>Protein Name: von Willebrand factor</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	VWF
Alternative Name:	VWF (VWF Products)
Background:	<p>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.</p> <p>Synonyms: Coagulation factor VIII antibody Coagulation factor VIII VWF antibody F8VWF antibody Factor VIII related antigen antibody von Willebrand antigen 2 antibody Von Willebrand antigen II antibody Von Willebrand disease antibody VWD antibody VWF antibody VWF_HUMAN antibody</p>
Gene ID:	7450
UniProt:	P04275

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for VWF is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

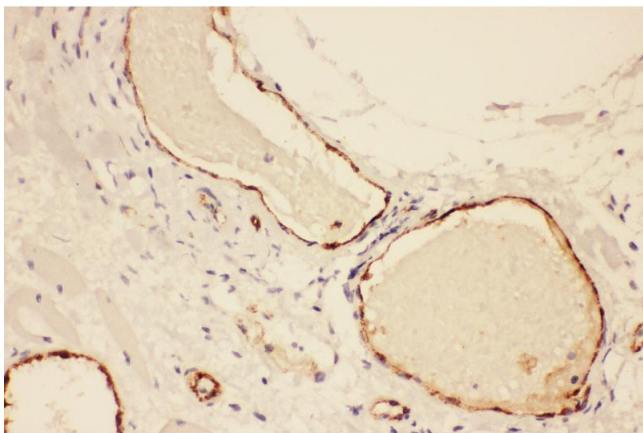
Publications

Product cited in:	<p>Zhang, Zhao, Zhao, Gu, Peng, Pu, Wu: "Expression and correlation analysis of RegIV and vascular endothelial growth factors (VEGF-A and VEGF-C) in metastatic spinal tumors." in: Oncology letters, Vol. 13, Issue 5, pp. 3517-3521, (2017) (PubMed).</p> <p>Zhang, Li, Zheng, Lin, Zhang, Zhang: "Inhibition of angiogenesis by arsenic trioxide via TSP-1-TGF-β1-CTGF-VEGF functional module in rheumatoid arthritis." in: Oncotarget, Vol. 8, Issue 43, pp. 73529-73546, (2017) (PubMed).</p> <p>Mu, Song, Zhang, Lin, Dong: "Calcium signaling is implicated in the diffuse axonal injury of brain stem." in: International journal of clinical and experimental pathology, Vol. 8, Issue 5, pp. 4388-97, (2016) (PubMed).</p> <p>Ding, Chen, Xu, Qin: "Effect of Hyperbaric Oxygen on the Growth of Intracranial Glioma in Rats." in: Chinese medical journal, Vol. 128, Issue 23, pp. 3197-203, (2016) (PubMed).</p> <p>Pan, Yu, Huang, Zhu: "Resveratrol Protects against TNF-α-Induced Injury in Human Umbilical Endothelial Cells through Promoting Sirtuin-1-Induced Repression of NF-KB and p38 MAPK." in: PLoS ONE, Vol. 11, Issue 1, pp. e0147034, (2016) (PubMed).</p> <p>There are more publications referencing this product on: Product page</p>
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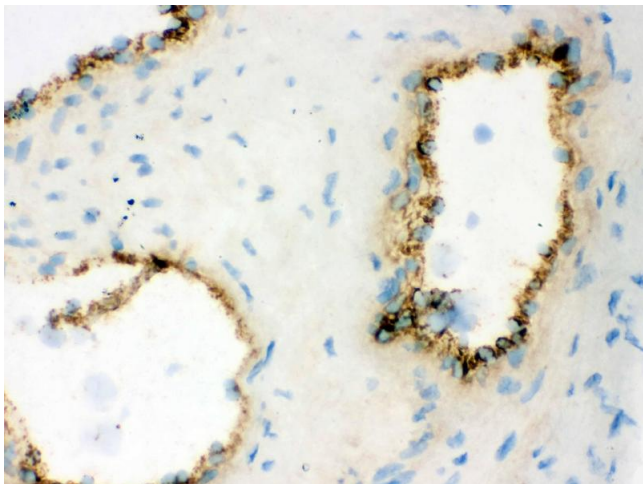
Western Blotting

Image 1. Anti-VWF Picoband antibody, All lanes: Anti-VWF at 0.5ug/ml WB: Whole Cell Lysate at 40ug Predicted bind size: 309KD Observed bind size: 309KD



Immunohistochemistry

Image 2. Anti-VWF Picoband antibody, IHC(P): Human Lung Cancer Tissue



Immunohistochemistry

Image 3. IHC analysis of VWF using anti-VWF antibody . VWF was detected in frozen section of human placenta tissue . Heat mediated antigen retrieval was performed in 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 1µg/ml rabbit anti-VWF Antibody 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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.