abcam

Product datasheet

Anti-Von Willebrand Factor antibody [EPR2992(N)] ab181871

Recombinant RabMAb

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Overview

Product name	Anti-Von Willebrand Factor antibody [EPR2992(N)]
Description	Rabbit monoclonal [EPR2992(N)] to Von Willebrand Factor
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human serum and plasma, HepG2 whole cell lysate (**ab7900**)
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2992(N)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181871 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(1)**	1/1000 - 1/10000. Detects a band of approximately 309 kDa (predicted molecular weight: 309 kDa).
IP		1/70.

Target

Function
Important in the maintenance of hemostasis, it promotes adhesion of platelets to the sites of vascular injury by forming a molecular bridge between sub-endothelial collagen matrix and platelet-surface receptor complex GPIb-IX-V. Also acts as a chaperone for coagulation factor VIII, delivering it to the site of injury, stabilizing its heterodimeric structure and protecting it from premature clearance from plasma.

Tissue specificity
Plasma.

Involvement in disease
Defects in VWF are the cause of von Willebrand disease (VWD) [MIM:277480]. VWD defines a group of hemorrhagic disorders in which the von Willebrand factor is either quantitatively or qualitatively abnormal resulting in altered platelet function. Symptoms vary depending on severity and disease type but may include prolonged bleeding time, deficiency of factor VIII and impaired platelet adhesion. Type I von Willebrand disease is the most common form and is characterized by partial quantitative plasmatic deficiency of an otherwise structurally and functionally normal Willebrand factor; type II is associated with a qualitative deficiency and functional anomalies of the Willebrand factor; type III is the most severe form and is characterized by total or near-total absence of Willebrand factor in the plasma and cellular compartments, also leading to a profound deficiency of plasmatic factor VIII.

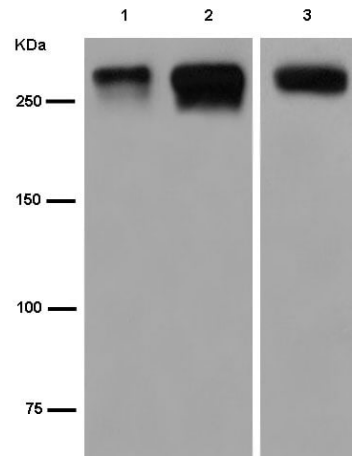
Sequence similarities
Contains 1 CTCK (C-terminal cystine knot-like) domain.
Contains 4 TIL (trypsin inhibitory-like) domains.
Contains 3 VWFA domains.
Contains 3 VWFC domains.
Contains 4 VWFD domains.

Domain
The von Willebrand antigen 2 is required for multimerization of vWF and for its targeting to storage granules.

Post-translational modifications
All cysteine residues are involved in intrachain or interchain disulfide bonds.
N- and O-glycosylated.

Cellular localization
Secreted. Secreted > extracellular space > extracellular matrix. Localized to storage granules.

Images



Western blot - Anti-Von Willebrand Factor antibody [EPR2992(N)] (ab181871)

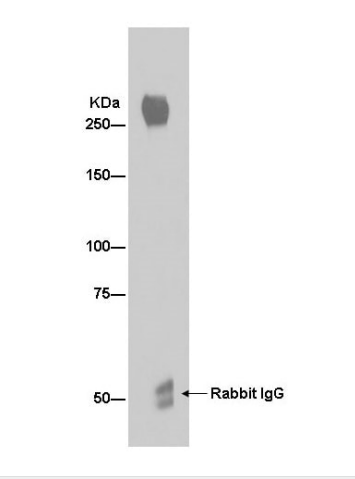
All lanes : Anti-Von Willebrand Factor antibody [EPR2992(N)] (ab181871) at 1/2000 dilution

Lane 1 : Human plasma lysate
Lane 2 : Human serum lysate
Lane 3 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

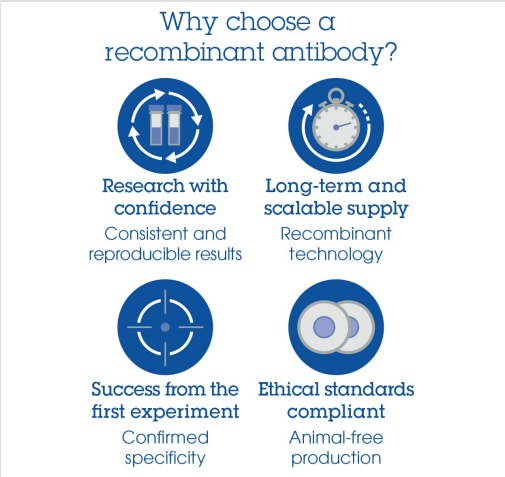
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 309 kDa
Observed band size: 309 kDa



Immunoprecipitation - Anti-Von Willebrand Factor antibody [EPR2992(N)] (ab181871)

Western blot analysis on immunoprecipitation pellet from Human plasma, labeling Von Willebrand Factor immunoprecipitated using ab181871 at 1/70 dilution and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.



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(ab181871)

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