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 within Human Von Willebrand Factor aa 350-450. The exact sequence is proprietary.
Database link: P04275

Positive control: Human serum and plasma, HepG2 whole cell lysate (ab7900)

General notes:

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid


Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity: Tissue culture supernatant

Clonality: Monoclonal

Clone number: EPR2992(N)

Isotype: IgG
**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.
**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

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.

**Please note**: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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