**Product datasheet**

**Anti-Von Willebrand Factor antibody ab6994**

★ ★ ★ ★ ★ 59 Abreviews   261 References   4 Images

**Overview**

**Product name**  Anti-Von Willebrand Factor antibody  
**Description**  Rabbit polyclonal to Von Willebrand Factor  
**Host species**  Rabbit  
**Tested applications**  Suitable for: ICC/IF, IHC-FrFl, IHC-P, IHC-Fr, WB, Flow Cyt, IHC-FoFr  
**Species reactivity**  Reacts with: Rat, Sheep, Horse, Guinea pig, Cow, Dog, Human, Pig  
**Immunogen**  Full length native protein (purified) corresponding to Human Von Willebrand Factor. Purified from plasma.  
**Positive control**  IHC-P: Pig skin tissue; BCG infected guinea pig lung tissue. ICC/IF: Equine exuberant granulation cells WB: Rat liver tissue lysate  
**General notes**

**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 or -80°C. Avoid freeze / thaw cycle.  
**Storage buffer**  pH: 7.40  
Preservative: 0.097% Sodium azide  
Constituent: PBS  
**Purity**  IgG fraction  
**Purification notes**  Whole antiserum is fractionated and then further purified by ion exchange chromatography to provide the IgG fraction of antiserum. This fraction is essentially free of other rabbit serum proteins.  
**Clonality**  Polyclonal  
**Isotype**  IgG  

**Applications**

Our Abpromise guarantee covers the use of ab6994 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/400.</td>
</tr>
<tr>
<td>IHC-FrF</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/200. (see Abreview)</td>
</tr>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/200 - 1/400. for IF and 1/1000-1/2000 for ABC methods with HRP conjugates. Perform enzymatic antigen retrieval with 0.1% pronase for 10 min at 35 °C before commencing with IHC protocol. Indirect Immunofluorescence: minimum working dilution of 1:200 was determined using FFPE sections of human tongue with FITC-conjugated secondary. Indirect Immunoperoxidase Labeling: minimum working dilution of 1:800 was determined using FFPE sections of human tongue with biotinylated secondary and signal amplification.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/1000.</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/500.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 5 μg/ml. (\text{ab171870}) - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>IHC-FoFr</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration. PubMed: 19622235</td>
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**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**
All cysteine residues are involved in intrachain or interchain disulfide bonds.
**modifications**  
N- and O-glycosylated.

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

**Images**

Immunocytochemical analysis labeling Von Willebrand Factor in equine exuberant granulation cells with ab6994 at 1/100 dilution. The nuclear counterstain is DAPI (blue).

ab6994 staining Von Willebrand Factor in pig skin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% serum for 30 minutes at 20°C; antigen retrieval was enzymatic using pronase, 1mg/ml. Samples were incubated with primary antibody (1/500 in PBS) for 12 hours at 4°C. A Biotin-conjugated goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody.
Western blot - Anti-Von Willebrand Factor antibody (ab6994)

This image is courtesy of an anonymous Abreview.

**All lanes**: Anti-Von Willebrand Factor antibody (ab6994) at 1/500 dilution

**All lanes**: Rat liver tissue lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit-HRP polyclonal at 1/3000 dilution

Performed under reducing conditions.

**Observed band size**: 300 kDa

*why is the actual band size different from the predicted?*

**Exposure time**: 2 minutes

Blocking buffer: 5% milk

Diluting buffer: 5% Milk in PBS T20

This picture shows Factor VII Immunohistochemical localization in BCG infected Guinea Pig Lung. The image was kindly supplied as part of the review submitted by Elizabeth Chlipala.
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