Product datasheet

Anti-Von Willebrand Factor antibody ab6994

🌟🌟🌟🌟 55 Abreviews  172 References  5 Images

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Von Willebrand Factor antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to Von Willebrand Factor</td>
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<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: ICC/IF, IHC-FrFl, IHC-P, IHC-Fr, WB, Flow Cyt, IHC-FoFr</td>
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<tr>
<td>Species reactivity</td>
<td>Reacts with: Rat, Sheep, Guinea pig, Cow, Dog, Human, Pig</td>
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<tr>
<td></td>
<td>Does not react with: Chicken</td>
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<tr>
<td>Immunogen</td>
<td>Full length native protein (purified) corresponding to Human Von Willebrand Factor. Purified from plasma.</td>
</tr>
<tr>
<td>Positive control</td>
<td>Human tongue.</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>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.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.4</td>
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<tr>
<td></td>
<td>Preservative: 0.097% Sodium azide</td>
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<tr>
<td></td>
<td>Constituent: PBS</td>
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<tr>
<td>Purity</td>
<td>IgG fraction</td>
</tr>
<tr>
<td>Purification notes</td>
<td>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.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
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</table>

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.
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**

Ab6994 positively staining formaldehyde fixed paraffin embedded mouse tumour sections (1/1000). Mice were subcutaneously injected with 3T3 cells which over expressed HER2.

Secondary: Biotin conjugated horse anti rabbit (1/300). Detection was achieved using DAB and the sections were counterstained with Hematoxylin.

This image is courtesy of an Abreview submitted by Jiqiang Zhang on 16 September 2005. For further details relating to the reviewers protocol please refer to the Abreviews section of the data sheet.

Confocal extended focus photograph of von Willebrand factor staining (red) and non-specific nuclear counterstain (green) in the adult mouse olfactory bulb. This picture shows a single major vessel within the glomerular layer of the olfactory bulb. For more details see the review of this antibody by Adam Puche.
Immunocytochemical analysis labeling Von Willebrand Factor 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.

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 Chipala.
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