Product datasheet

Anti-Factor VIII antibody ab236284

Overview

Product name
Anti-Factor VIII antibody

Description
Rabbit polyclonal to Factor VIII

Host species
Rabbit

Tested applications
Suitable for: IHC-P, ICC/IF

Species reactivity
Reacts with: Human

Immunogen
Recombinant full length protein corresponding to Human Factor VIII aa 1-216. Isoform 2 Sequence:

MRQDPGKVFFGNVDSSGKHNIFNPPARYIRLHPTHYS
IRSTLRMEL
MGCDLNSCSMPLGMEKAISDAQTASSYFTNMFATW
SPSKARLHLQGRS
NAWRPQVNNPKKEWLQVDQKTMKVTGVTQGVKSLL
TSMYVKEFLISSQ
DGHQWTLFFQNGKVQFQGNQDSFTPVVNSLDPLL
TRYLRHIPOSWVHQIALRMEVLGCEAQDLY

Database link: P00451

Positive control
IHC-P: Human placenta and renal tissue. ICC/IF: HeLa cells.

Properties

Form
Liquid

Storage instructions

Storage buffer
pH: 7.4
Preservative: 0.03% Proclin
Constituents: PBS, 50% Glycerol

Purity
Protein G purified

Purification notes
Purity >95%

Clonality
Polyclonal
Isotype

**IgG**

Applications

Our **Abpromise guarantee** covers the use of **ab236284** 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>IHC-P</td>
<td></td>
<td>1/20 - 1/200.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/50 - 1/200.</td>
</tr>
</tbody>
</table>

Target

Function

Factor VIII, along with calcium and phospholipid, acts as a cofactor for factor IXa when it converts factor X to the activated form, factor Xa.

Involvement in disease

Defects in F8 are the cause of hemophilia A (HEMA) [MIM:306700]. A disorder of blood coagulation characterized by a permanent tendency to hemorrhage. About 50% of patients have severe hemophilia resulting in frequent spontaneous bleeding into joints, muscles and internal organs. Less severe forms are characterized by bleeding after trauma or surgery. Note=Of particular interest for the understanding of the function of F8 is the category of CRM (cross-reacting material) positive patients (approximately 5%) that have considerable amount of F8 in their plasma (at least 30% of normal), but the protein is non-functional; i.e., the F8 activity is much less than the plasma protein level. CRM-reduced is another category of patients in which the F8C antigen and activity are reduced to approximately the same level. Most mutations are CRM negative, and probably affect the folding and stability of the protein.

Sequence similarities

Belongs to the multicopper oxidase family.
- Contains 3 F5/8 type A domains.
- Contains 2 F5/8 type C domains.
- Contains 6 plastocyanin-like domains.

Domain

Domain F5/8 type C 2 is responsible for phospholipid-binding and essential for factor VIII activity.

Post-translational modifications

Sulfation on Tyr-1699 is essential for binding vWF.

Cellular localization

Secreted > extracellular space.

Images
Paraffin-embedded human placental tissue stained for Factor VIII using ab236284 at 1/100 dilution in immunohistochemical analysis.

Paraffin-embedded human renal tissue stained for Factor VIII using ab236284 at 1/100 dilution in immunohistochemical analysis.
HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Factor VIII using ab236284 at 1/100 dilution in ICC/IF, followed by an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (H+L).

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors