abcam

Product datasheet

Anti-Factor VIII antibody [27.4] ab41188

4 References

Overview

Product name	Anti-Factor VIII antibody [27.4]
Description	Mouse monoclonal [27.4] to Factor VIII
Host species	Mouse
Specificity	ab41188 does not cross react with the von Willebrand factor.
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Human
Immunogen	Full length native protein (purified) corresponding to Human Factor VIII (N terminal).
Epitope	ab41188 recognises an epitope in the N-terminal region of the 83kD light chain of Factor VIII.
General notes	This product was changed from ascites to tissue culture supernatant on 19/12/2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions please do not hesitate to contact our scientific support team. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 99% PBS
Purity	Protein G purified
Purification notes	Purified from TCS
Clonality	Monoclonal
Clone number	27.4

Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab41188 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
ELISA		
WB		

Application notes

ELISA: 1/16,000.
WB: Use at an assay dependent dilution. Predicted molecular weight: 267 kDa.

Dilute in PBS or medium which is identical to that used in the assay system.

Can inhibit Factor VIII activity in coagulation assays.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

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.

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