

Datasheet: MCA4677

Description:	MOUSE ANTI HUMAN FACTOR VIII
Specificity:	FACTOR VIII
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RFF-VIIIC/8
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/500 - 1/15000
Immunoprecipitation			▪	
Western Blotting	▪			
Radioimmunoassays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Pig

Does not react with: Mouse, Dog, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Affinity purified human Factor VIII.
External Database Links	<p>UniProt: P00451 Related reagents</p> <p>Entrez Gene: 2157 F8 Related reagents</p>
Synonyms	F8C
RRID	AB_1833762
Fusion Partners	Spleen cells from an immunized Balb/c mouse we fused foth cells of the P3-NS/a-Ag4-1 mouse myeloma.
Specificity	<p>Mouse anti Human Factor VIII antibody, clone RFF-VIIIC/8 recognizes human Factor VIII, an essential blood coagulation factor. Whilst circulating in the blood, it is mostly stably complexed to von Willebrand factor. It is activated through cleavage at various sites, dissociates from the complex and interacts with Factor IXa, in the presence of calcium ions and phospholipids, to convert Factor X to the activated Factor Xa, which activates thrombin. Thrombin cleaves fibrinogen into fibrin, which polymerizes and cross-links to form a blood clot. The activated Factor VIII is proteolytically inactivated and cleared from the bloodstream.</p> <p>Defects in Factor VIII cause haemophilia A, a disorder characterized by the body's inability to control blood clotting. This could result in severe blood loss, even with minor injuries.</p> <p>Mouse anti Human Factor VIII antibody, clone RFF-VIIIC/8 is a very potent coagulation inhibitor. It recognizes an epitope towards the N-terminus of full-length Factor VIII. It also recognizes the 210 kDa, 90 kDa and 40 kDa cleavage products. Mouse anti Human Factor VIII antibody, clone RFF-VIIIC/8 does not cross-react with von Willebrand factor.</p>
References	<ol style="list-style-type: none"> 1. Rotblat, F. <i>et al.</i> (1983) Monoclonal antibodies to human procoagulant factor VIII. J Lab Clin Med. 101 (5): 736-46. 2. Tiarks, C. <i>et al.</i> (1987) Identification of six functional clotting factor VIII:C epitopes by analysis of cross-reactive public idiotypes in murine monoclonal VIII:C inhibitors. Thromb Res. 45 (5): 527-37. 3. Purohit, V.S. <i>et al.</i> (2006) Influence of aggregation on immunogenicity of recombinant

human Factor VIII in hemophilia A mice. [J Pharm Sci. 95 \(2\): 358-71.](#)

4. Zaniboni, A. *et al.* (2015) In vitro differentiation of porcine aortic vascular precursor cells to endothelial and vascular smooth muscle cells. [Am J Physiol Cell Physiol. 309 \(5\): C320-31.](#)

5. Turner NA & Moake JL (2015) Factor VIII Is Synthesized in Human Endothelial Cells, Packaged in Weibel-Palade Bodies and Secreted Bound to ULVWF Strings. [PLoS One. 10 \(10\): e0140740.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4677>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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