## Datasheet: MCA4677

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI HUMAN FACTOR VIII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>FACTOR VIII</td>
</tr>
<tr>
<td>Format</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>RFF-VIIIC/8</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.5 mg</td>
</tr>
</tbody>
</table>

### Product Details

**RRID** AB_1833762

### 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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td>1/500 - 1/15000</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Radioimmunoassays</td>
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</tbody>
</table>

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.

### 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 (NaN₃)

### Carrier Free

Yes
Approx. Protein Concentrations  
IgG concentration 1.0mg/ml

**Immunogen**  
Affinity purified human Factor VIII.

**External Database Links**

<table>
<thead>
<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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<tbody>
<tr>
<td>P00451</td>
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<table>
<thead>
<tr>
<th>Entrez Gene:</th>
<th>Related reagents</th>
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</thead>
<tbody>
<tr>
<td>2157 F8</td>
<td></td>
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</tbody>
</table>

**Synonyms**

F8C

**Fusion Partners**  
Spleen cells from an immunized Balb/c mouse we fused both cells of the P3-NS/a-Ag4-1 mouse myeloma.

**Specificity**  
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.

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.

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.

**References**


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

18 months from date of despatch.

**Health And Safety**

Material Safety Datasheet documentation #10040 available at:
Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)