

## Datasheet: MCA4681

<b>Description:</b>	MOUSE ANTI HUMAN FACTOR VII
<b>Specificity:</b>	FACTOR VII
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RFF-VII/1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/20 - 1/200
Western Blotting (1)	▪			
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.

**(1)MCA4680 binds to a conformational epitope and will not bind to reduced Factor VII.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Purified human factor VII.

**External Database  
Links**

**UniProt:**

[P08709](#) [Related reagents](#)

**Entrez Gene:**

[2155](#) F7 [Related reagents](#)

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**RRID**

AB\_2101604

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**Fusion Partners**

Spleen cells from immunised Balb/c mice were fused with cells of the P3-NS/1-Ag 4 mouse myeloma cell line.

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**Specificity**

**Mouse anti Human Factor VII antibody, clone RFF-VII/1** recognizes Factor VII, a serine protease found circulating in the blood. It initiates the extrinsic pathway of blood coagulation in conjunction with tissue factor. Tissue factor is found on the outside of blood vessels. When the vessels is damaged, tissue factor is exposed to the blood and circulating Factor VII. Once bound to tissue factor, Factor VII is activated by different proteases and converts Factor IX to IXa. Factor VII deficiency ([FA7D](#)) is a rare hereditary haemorrhagic disease. Symptoms range from mild to severe.

Clone RFF-VII/1 is a strong inhibitor of Factor VII activity. It may be used to detect Factor VII in immunoassays in combination with Mouse anti Human Factor VII antibody, clone RFF-VII/2 ([MCA4680](#)) as a capture reagent.

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**References**

1. Takase, T. *et al.* (1988) Monoclonal antibodies to human factor VII: a one step immunoradiometric assay for VII:Ag. [J Clin Pathol. 41 \(3\): 337-41.](#)
2. Takase, T. *et al.* (1988) Monoclonal antibodies to human factor VII: production of immunodepleted plasma for VII:C assays. [J Clin Pathol. 41 \(3\): 342-5.](#)
3. Sarial, S. *et al.* (2012) A high affinity monoclonal antibody recognizing the light chain of human coagulating factor VII. [Hybridoma \(Larchmt\). 31 \(6\): 443-8.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## 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 \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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'M367882:200529'

Printed on 11 Aug 2020

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