

## Datasheet: MCA4680

**BATCH NUMBER 168668**

<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/2
<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	▪			
Immunoprecipitation			▪	
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 A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

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**Stabilisers**

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**Carrier Free** Yes

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Purified Factor VII.

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**External Database Links****UniProt:**[P08709](#)   [Related reagents](#)**Entrez Gene:**[2155](#) F7   [Related reagents](#)

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**RRID** AB\_10598099

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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/2** 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.

Mouse anti Human Factor VII antibody, clone RFF-VII/2 may be used as a capture antibody in immunoassays for Factor VII in combination with Mouse anti Human Factor VII antibody, clone RFF-VII/1 ([MCA4681](#)) as a detection 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. O'Brien, D.P. *et al.* (1991) Purification and characterization of factor VII 304-Gln: a variant molecule with reduced activity isolated from a clinically unaffected male. [Blood. 78 \(1\): 132-40.](#)
3. O'Brien, D.P. *et al.* (1994) Surface plasmon resonance studies of the interaction between factor VII and tissue factor. Demonstration of defective tissue factor binding in a variant FVII molecule (FVII-R79Q). [Biochemistry. 33 \(47\): 14162-9.](#)

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**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.

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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:  
<https://www.bio-rad-antibodies.com/SDS/MCA4680>  
10040

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**Regulatory** For research purposes only

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

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