

Datasheet: MCA4680

BATCH NUMBER 168120

Description:	MOUSE ANTI HUMAN FACTOR VII
Specificity:	FACTOR VII
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RFF-VII/2
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	▪			
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.

Target Species	Human
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	0.09% Sodium Azide (NaN ₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Purified Factor VII.

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

RRID AB_10598099

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

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.

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.](#)

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/MCA4680 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
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
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M429223:240326'

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