

Datasheet: MCA2613

Description:	MOUSE ANTI HUMAN COMPLEMENT FACTOR B (Bb FRAGMENT)
Specificity:	COMPLEMENT FACTOR B (Bb FRAGMENT)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10-09
Isotype:	IgG1
Quantity:	0.1 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)	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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)Clone 10-09 binds to both the Bb fragment and complement factor B so is not suitable for all ELISA applications.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Borate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human factor B.
External Database	UniProt:

Links [P00751](#) [Related reagents](#)

Entrez Gene:

[629](#) CFB [Related reagents](#)

Synonyms BF, BFD

Specificity **Mouse anti Human complement factor B antibody, clone 10-09** recognises the Bb fragment of 90 kDa human complement factor B, present in blood serum. C3b associates with complement factor B, inducing conformational change which enables complement factor D to cleave the N-terminal of complement factor B, the Ba subunit, leaving the 63 kDa Bb subunit associated with C3b and forming C3 convertase. Subunit Bb is involved in the proliferation of preactivated B lymphocytes. Conversely, Ba inhibits lymphocyte proliferation.

Histology Positive Control Tissue Kidney from post streptococcal glomerulonephritis patients.

References 1. Zipplies, J.K. *et al.* (2010) Complement factor B expression profile in a spontaneous uveitis model. [Immunobiology. 215 \(12\): 949-55.](#)

Further Reading 1. Xu, Y. *et al.* (2001) Structural biology of the alternative pathway convertase. [Immunol Rev. 180: 123-35.](#)
2. Ponnuraj, K. *et al.* (2004) Structural analysis of engineered Bb fragment of complement factor B: insights into the activation mechanism of the alternative pathway C3-convertase. [Mol Cell. 14 \(1\): 17-28.](#)

Storage Prior to reconstitution store at +4°C.
After reconstitution 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.

Shelf Life Please see label for expiry date

Health And Safety Information Material Safety Datasheet documentation #10334 available at:
10334: <https://www.bio-rad-antibodies.com/uploads/MSDS/10334.pdf>

Regulatory For research purposes only

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@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

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

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Worldwide

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