

Datasheet: MCA2613

BATCH NUMBER 170847

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| Description: | MOUSE ANTI HUMAN COMPLEMENT FACTOR B (Bb FRAGMENT) |
| Specificity: | COMPLEMENT FACTOR B (Bb FRAGMENT) |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | 032B-32.15.1 (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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from ascites |
| Buffer Solution | Borate buffered saline |
| Preservative Stabilisers | 0.1% Sodium Azide (NaN ₃) |

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| Approx. Protein Concentrations | Current, batch-specific concentration 1.05 mg/ml |
| Immunogen | Human factor B. |
| External Database Links | <p>UniProt: P00751 Related reagents</p> <p>Entrez Gene: 629 CFB Related reagents</p> |
| Synonyms | BF, BFD |
| RRID | AB_2080002 |
| Specificity | <p>Mouse anti Human complement factor B antibody, clone 032B-32.15.1 (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.</p> |
| Histology Positive Control Tissue | Kidney from post streptococcal glomerulonephritis patients. |
| References | 1. Zipplies, J.K. <i>et al.</i> (2010) Complement factor B expression profile in a spontaneous uveitis model. Immunobiology. 215 (12): 949-55. |
| Further Reading | <p>1. Xu, Y. <i>et al.</i> (2001) Structural biology of the alternative pathway convertase. Immunol Rev. 180: 123-35.</p> <p>2. Ponnuraj, K. <i>et al.</i> (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.</p> |
| Storage | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | Guaranteed until date of expiry. Please see product label. |
| Health And Safety Information | Material Safety Datasheet documentation #10077 available at: https://www.bio-rad-antibodies.com/SDS/MCA2613 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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|---|---|
| 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 |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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