# Datasheet: MCA2650

## BATCH NUMBER 162121

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| **Description:** | MOUSE ANTI HUMAN COMPLEMENT FACTOR Bb NEOANTIGEN |
| **Specificity:** | COMPLEMENT FACTOR Bb |
| **Format:** | Purified |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | 032B-22.1.X |
| **Isotype:** | IgG2a |
| **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 | ▪ | | | |
| 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.

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| **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** | Current, batch-specific concentration 1.125 mg/ml |

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| **Immunogen** | Purified Human factor B |
| **External Database Links** | **UniProt:**<br>P00751 Related reagents<br><br>**Entrez Gene:**<br>629 CFB Related reagents |
| **Synonyms** | BF, BFD |
| **RRID** | AB_877463 |
| **Specificity** | **Mouse anti human complement factor Bb neoantigen monoclonal antibody, clone 032B-22.1.X** recognizes a neoantigen of the Bb fragment of human complement factor B. Factor B is present in blood serum. C3b associates with complement factor B, inducing conformational change. This 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. |
| **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.<br>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. 14:17-28. |
| **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.<br><br>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. |
| **Guarantee** | Guaranteed until date of expiry. Please see product label. |
| **Health And Safety Information** | Material Safety Datasheet documentation #10077 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA2650<br>10077 |
| **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 |


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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

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