

Datasheet: MCA2615

BATCH NUMBER 154288

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| Description: | MOUSE ANTI HUMAN COMPLEMENT FACTOR I |
| Specificity: | COMPLEMENT FACTOR I |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | 052.11.3 (3R/8) |
| 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 | ▪ | | | 1/500 - 1/4000 |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | |
| Functional Assays | ▪ | | | |

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 | IgG concentration 1.14 mg/ml |

Concentrations

Immunogen Native human factor I from serum.

External Database Links

UniProt:

[P05156](#) [Related reagents](#)

Entrez Gene:

[3426](#) CFI [Related reagents](#)

Synonyms IF

RRID AB_844540

Specificity

Mouse anti Human Complement Factor I antibody, clone 052.11.3 (3R/8) recognizes complement factor I, a member of the peptidase S1 family present in the blood plasma. Factor I is an 88 kDa protein consisting of one polypeptide chain of 35.4 kDa and one of 27.6 kDa. Factor I is a serine protease which inactivates complement components C3b and C4b. C3b cleavage requires the presence of cofactors complement component (3b/4b) receptor 1 (CR1), membrane cofactor protein or factor H, while C4b cleavage requires complement component 4 binding protein or CR1. Factor I has no natural inhibitors.

Dysfunctional factor I can lead to uncontrolled activation of the alternative complement pathway causing in systemic depletion of C3 and lower levels of factors B and H, resulting in recurrent pyogenic infections. Defects in CFI are also associated with haemolytic uraemic syndrome.

Mouse anti Human Complement Factor I antibody, clone 3R/8 blocks function of complement factor I.

Removal of Sodium Azide is recommended prior to use in functional assays. The use of [EQU003](#) is recommended for this purpose.

Histology Positive Control Tissue

Kidney from post streptococcal glomerulonephritis patients

References

1. Dragon-Durey, M.A. & Frémeaux-Bacchi, V. (2005) Atypical haemolytic uraemic syndrome and mutations in complement regulator genes. [Springer Semin Immunopathol. 27 \(3\): 359-74.](#)
 2. Nilsson, S.C. *et al.* (2007) A mutation in factor I that is associated with atypical hemolytic uremic syndrome does not affect the function of factor I in complement regulation. [Mol Immunol. 44 \(8\): 1835-44.](#)
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Storage

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.

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| Guarantee | Guaranteed until date of expiry. Please see product label. |
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| Health And Safety Information | Material Safety Datasheet documentation #10334 available at: https://www.bio-rad-antibodies.com/SDS/MCA2615 10334 |
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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 |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| 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 (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |

Recommended Negative Controls

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

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| 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](https://www.bio-rad-antibodies.com/datasheets)
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