

Datasheet: MCA6163GA BATCH NUMBER 161140

| Description: | MOUSE ANTI HUMAN C3a/C3a desArg | | |
|---------------|---------------------------------|--|--|
| Specificity: | C3a/C3a desArg | | |
| Format: | Purified | | |
| Product Type: | Monoclonal Antibody | | |
| Clone: | 2991 | | |
| lsotype: | lgG1 | | |
| 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 <u>www.bio-rad-antibodies.com/protocols</u> . | | | | | |
|-----------------------------------|--|---|----|----------------|--------------------|--|
| | | Yes | No | Not Determined | Suggested Dilution | |
| | ELISA | • | | | | |
| | Western Blotting | - | | | | |
| | Where this product has i | 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 a a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls. | | | | • | |
| Target Species | Human | | | | | |
| Product Form | Purified IgG - liquid | | | | | |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G | | | | | |
| Buffer Solution | Phosphate buffered saline | | | | | |
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) | | | | | |
| Approx. Protein Concentrations | IgG concentration 0.1 mg/ml | | | | | |
| Immunogen | Human C3a des-arg | | | | | |

| External Database Links | UniProt: P01024 Related reagents Entrez Gene: 718 C3 Related reagents | | | |
|----------------------------|---|--|--|--|
| Synonyms | CPAMD1 | | | |
| Specificity | Mouse anti Human C3a/C3a desArg antibody, clone 2991, recognizes the neo-epitope of both human C3a and C3a desArg, with at least a 5x higher preference for C3a desArg. Neo-epitopes are regions on native proteins that are only exposed and detectable on activated proteins. As such, detection of these neo-epitopes can be used for the direct quantification of the activation of different steps in the complement cascade. | | | |
| | C3 is a 185 kDa glycoprotein consisting of an alpha and beta chain and is the key component of the complement activation pathways. There are 3 activation pathways within the complement system; the classical, lectin and alternative pathways. All three pathways converge on C3; resulting in its cleavage to anaphylatoxin C3a and opsonin C3b (Dunkelberger & Song 2010). C3a is a ligand to the seven-transmembrane coupled receptor C3aR. Upon binding to this receptor C3a elicits an anti-inflammatory response, by attenuating neutrophil mobilization into circulation after injury (Mathern & Heeger 2015). C3a is however rapidly cleaved by serum carboxypeptidases at the C-terminal arginine to the more stable C3a desArg. C3a desArg has no detectable activity with C3aR, but there is some evidence to suggest that it can bind to C5aR2, a receptor of C5a as well as C5L2 (Kalant <i>et al.</i> 2003, Zhang <i>et al.</i> 2017). Measurement of C3a desArg has been used to examine the level of complement activation in test samples. | | | |
| 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 | | | |
| Guarantee | frost-free freezers is not recommended. | | | |
| Health And Safety | 12 months from date of despatch Material Safety Datasheet documentation #10040 available at: <u>https://www.bio-rad-antibodies.com/SDS/MCA6163GA</u> 10040 | | | |
| Regulatory | For research purposes only | | | |

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)RPEGoat Anti Mouse IgG IgA IgM (STAR87...)HRP

| | Goat Anti Mouse IgG (STAR76. |) | RPE | | |
|---|-----------------------------------|-----------|-----------------------------------|---------------|-----------------|
| | Rabbit Anti Mouse IgG (STAR1 | 3) | HRP | | |
| | Goat Anti Mouse IgG (STAR70. |) | <u>FITC</u> | | |
| | Goat Anti Mouse IgG (H/L) (ST/ | AR117) | <u>Alk. Phos., DyLight®488, [</u> | DyLight®550, | |
| | | ļ | DyLight®650, DyLight®680 |), DyLight®80 | <u>)0</u> , |
| | | ļ | <u>FITC, HRP</u> | | |
| | Rabbit Anti Mouse IgG (STAR9 |) | <u>FITC</u> | | |
| | Goat Anti Mouse IgG (STAR77. |) | HRP | | |
| | Goat Anti Mouse IgG (Fc) (STA | R120) | <u>FITC, HRP</u> | | |
| | | | | | |
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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 M395081:220309'

Printed on 19 Jan 2024

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