

## Datasheet: MCA6151GA

**BATCH NUMBER 157924**

<b>Description:</b>	MOUSE ANTI HUMAN C3/C3b
<b>Specificity:</b>	C3/C3b
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	755
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/50
Immunohistology - Paraffin	▪			1/200
ELISA	▪			
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml

Immunogen Native human C3

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**External Database**

**Links**

**UniProt:**

[P01024](#) [Related reagents](#)

**Entrez Gene:**

[718](#) C3 [Related reagents](#)

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**Synonyms**

CPAMD1

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**Specificity**

**Mouse anti Human C3/C3b antibody, clone 755**, recognizes an epitope within the C-terminal 360 amino acids on the alpha chain of C3 and recognizes both C3b and C3. C3 is a 185 kDa glycoprotein consisting of an alpha and beta chain and is the key component of the complement activation pathways. It is also the most abundant complement protein within serum, with levels of ~1.3 mg/ml ([Sim et al. 1981](#)).

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. C3b targets microbial cell surface receptors, marking them for phagocytosis by macrophages ([Fournis et al. 2019](#)). C3b and its degradation products also play a role in the removal of complement-coated apoptotic and necrotic cells ([Xu et al. 2008](#)). In what is considered to be a consequence of this functionality, patients with C3 deficiencies are subject to recurrent bacterial infections ([Tedesco 2008](#)).

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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**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6151GA>  
10040

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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](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)

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