

## Datasheet: MCA6155GA

**BATCH NUMBER 168602**

<b>Description:</b>	MOUSE ANTI HUMAN C5a/C5a desArg (NEO-EPITOPE)
<b>Specificity:</b>	C5a/C5a desArg (neo-epitope)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2952
<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	▪			
Immunohistology - Paraffin	▪			1/100
ELISA	▪			
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.

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

**Immunogen** ISHKDMLG (C5a amino acid 65-73)

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**External Database**

**Links**

**UniProt:**

[P01031](#) [Related reagents](#)

**Entrez Gene:**

[727](#) C5 [Related reagents](#)

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**Synonyms**

CPAMD4

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**Specificity**

**Mouse anti Human C5a/C5a desArg (neo-epitope) antibody, clone 2952**, recognizes a neo-epitope on the human complement proteins C5a and C5a desArg. Neo-epitopes are regions on native proteins, like C5, that are normally only exposed and detectable by monoclonal antibodies, on active forms of the protein.

C5 is a member of the complement cascade and all three activation pathways (classical, lectin and alternative), lead to its cleavage. Upon activation of any of these pathways, C5 is cleaved by C5 convertases into C5b, which mediates pathogen lysis, and the inflammatory mediator C5a. The inflammatory responses mediated by C5a are chemotaxis, leukocyte degranulation, vascular permeability and cytokine plus chemokine production. Beyond innate immunity though, C5a plays a role in organ development, tissue regeneration and hematopoiesis ([Zhang et al. 2017](#)). C5a elicits these responses through its interaction with the receptors C5aR and C5aR (C5L2). These receptors are expressed ubiquitously, but are found in higher levels on the surface of immune cells, including macrophages, neutrophils and T cells. However, C5a is a short lived in circulation and is cleaved at its C-terminal arginine, by carboxypeptidases, generating the more stable C5a desArg. While C5a desArg is more stable in serum than C5a, it is less potent in comparison, but they do activate a similar range of biological responses ([Zhang et al. 2017](#), [Merle et al. 2015](#)).

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**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 frost-free freezers is not recommended.

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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/MCA6155GA>  
10040

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**Regulatory**

For research purposes only

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## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

## Recommended Negative Controls

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

<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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