

Datasheet: MCA6155GA

BATCH NUMBER 170334

Description:	MOUSE ANTI HUMAN C5a/C5a desArg (NEO-EPITOPE)
Specificity:	C5a/C5a desArg (neo-epitope)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2952
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
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.

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

Immunogen ISHKDMLG (C5a amino acid 65-73)

External Database

Links

UniProt:

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

Entrez Gene:

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

Synonyms

CPAMD4

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](#)).

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6155GA>
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Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
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
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (STAR76...)	RPE

North & South Tel: +1 800 265 7376

America 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

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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