Datasheet: MCA6162GA

Description:	RAT ANTI HUMAN C3g
Specificity:	C3g
Other names:	Complement C3g fragment
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9
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
ELISA	▪			
Immunoprecipitation	▪			

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	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
External Database Links	**UniProt:**

P01024 Related reagents

Entrez Gene:

718 C3 Related reagents

Synonyms	CPAMD1
Specificity	**Rat anti Human C3g antibody, clone 9,** (also known as clone YB2/90-5-20) recognizes a neoantigen in the C3g region of C3 and also recognizes the fragments iC3, iC3b and C3dg. There are 3 activation pathways within the complement system; the classical, lectin and alternative pathways. C3 is the key component of all 3, with all of them converging on C3, resulting in its activation and cleavage to the anaphylatoxin C3a and the opsonin C3b (Ricklin *et al.* 2016). C3b targets microbial cell surface receptors, enhancing phagocytosis (Fries *et al.* 1987). However, C3b is not stable in serum and is rapidly cleaved by factor I and a cofactor to form the more stable fragment iC3b (inactivated C3b) and C3f. iC3b is then slowly cleaved to form C3c, C3dg and C3f (Ricklin *et al.* 2016). Other proteases in vitro have been shown to cleave Cdg into C3d and C3g; however this has not been observed *in vivo* and thus is not thought to occur naturally (Lachmann *et al.* 1982).
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/MCA6162GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550, DyLight®650, DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC

Recommended Negative Controls

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

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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