

Datasheet: MCA6152GA BATCH NUMBER 157925

Description:	MOUSE ANTI HUMAN C3/C3a
Specificity:	C3/C3a
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	474
Isotype:	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	-			1/50		
	Western Blotting	-					
	Where this product has r	not been t	ested for ι	use in a particular tech	nnique this does not		
	necessarily exclude its u a guide only. It is recomr system using appropriate	mended th	nat the use	er titrates the product f	•		
Target Species	Human						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by	affinity cl	nromatogr	aphy on Protein G			
Buffer Solution	Phosphate buffered salir	ne					
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)					
Approx. Protein Concentrations	IgG concentration 0.1 m	g/ml					
Immunogen	СЗа						

External Database Links	UniProt:P01024Related reagentsEntrez Gene:718C3Related reagents
Synonyms	CPAMD1
Specificity	Mouse anti Human C3/C3a antibody, clone 474, recognizes an epitope on C3a and also detects C3. C3 is a 185 kDa glycoprotein consisting of an alpha and beta chain and is the key component of all of the complement activation pathways. It is also the most abundant complement protein within serum, with levels of ~1.3 mg/ml (<u>Sim <i>et al.</i> 1981</u>).
	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. C3a is a ligand to the seven-transmembrane coupled receptor C3aR (<u>Dunkelberger & Song 2010</u>). The actual response to C3a binding to C3aR has been shown to be cell type specific. For example, in mast cells, C3a elicits a pro-inflammatory histamine degranulation response (<u>el-Lati <i>et al.</i> 1994</u>). Whereas, on neutrophils, C3a exhibits an anti-inflammatory response, through attenuation of neutrophil mobilization into circulation after injury (<u>Mathern & Heeger 2015</u>). C3a has been shown to have a number of additional functionalities including to facilitate cross-talk between immune cells and tumor cells in the tumor microenvironment, promoting tumor cell metastasis (<u>Afshar-Karghan 2017</u>).
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.
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/MCA6152GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	<u>RPE</u>
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>
Rabbit Anti Mouse IgG (STAR13)	<u>HRP</u>

Goat Ant	i Mouse IgG (Fc) (STAR120)	FITC, HRP				
Rabbit A	nti Mouse IgG (STAR9)	FITC				
Goat Ant	i Mouse IgG (STAR77)	HRP				
Goat Ant	i Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,				
		DyLight®650, DyLight®680, DyLight®800,				
		FITC, HRP				
Goat Ant	i Mouse IgG (STAR76)	RPE				
North & South	Tel: +1 800 265 7376 Worldwi	vide Tel: +44 (0)1865 852 700 Europe Tel: +49 (0) 89 8090 95 21				
America	Fax: +1 919 878 3751	Fax: +44 (0)1865 852 739 Fax: +49 (0) 89 8090 95 50				
	Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com Email: antibody_sales_de@bio-rad	d.com			
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M387829:210726'						

Printed on 28 May 2025

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