

Datasheet: MCA6160GA

Description:	MOUSE ANTI HUMAN C3aR
Specificity:	C3aR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	17 (hC3aRZ8)
Isotype:	IgG2b
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
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
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:

[Q16581](https://www.uniprot.org/entry/Q16581)

[Related reagents](#)

Entrez Gene:[719](#) C3AR1 [Related reagents](#)

Synonyms	AZ3B, C3R1, HNFAG09
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Specificity	Mouse anti Human C3aR antibody, clone 1hC3aRZ8 , recognizes the human receptor of C3a (C3aR), this clone is also known in the literature as clone hC3aRZ8. C3a is a ligand to the seven-transmembrane coupled receptor C3aR. C3aR is expressed in myeloid cells including monocytes, macrophages, dendritic cells as well as T cells, endothelial, epithelial, glial cells and neurons (Wang et al. 2019). The response of C3a binding to C3aR has been shown to be cell type specific. For example, in mast cells, C3a elicits a proinflammatory histamine degranulation response, whereas on neutrophils, C3a exhibits an anti-inflammatory response, through attenuation of neutrophil mobilization into circulation after injury (Mathern & Heeger 2015). Other functionalities have included leukocyte activation, vascular permeability and chemotaxis (Wang et al. 2019). Beyond its immune related functions C3aR has been shown to facilitate osteoclast differentiation and bone formation (Ignatius et al. 2011). It has also been shown to be up-regulated in multiple sclerosis, with increased expression on glial cells (Gasque et al. 1998).
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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: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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
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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
'M390637:210924'

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