

## Datasheet: MCA6160GA

**BATCH NUMBER 166394**

<b>Description:</b>	MOUSE ANTI HUMAN C3aR
<b>Specificity:</b>	C3aR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	17 (hC3aRZ8)
<b>Isotype:</b>	IgG2b
<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
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.

<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>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml

**External Database  
Links**

**UniProt:**

[Q16581](#)   [Related reagents](#)

**Entrez Gene:**

[719](#)   C3AR1   [Related reagents](#)

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**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:  
<https://www.bio-rad-antibodies.com/SDS/MCA6160GA>  
10040

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**Regulatory**      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### **Recommended Negative Controls**

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

<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)  
'M410640:221028'

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