

## Datasheet: MCA2456GA

<b>Description:</b>	RAT ANTI MOUSE CD88
<b>Specificity:</b>	CD88
<b>Other names:</b>	C5aR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	10/92
<b>Isotype:</b>	IgG2a
<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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			
Functional Assays		▪		

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse
<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
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

<b>Immunogen</b>	RBL-2H3 transfected cells expressing murine C5aR.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P30993</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">12273</a>   C5ar1   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	C5ar, C5r1
<b>Fusion Partners</b>	Cells from immunised Lou/c rats were fused with cells of the X63-Ag8.653 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse CD88 antibody, clone 10/92</b> recognizes murine CD88, a 45 kDa G-protein coupled cell surface receptor, otherwise known as C5aR. The CD88 molecule functions as a receptor for the complement component C5a, a potent proinflammatory molecule and chemoattractant for neutrophils to sites of infection. In mouse, CD88 is expressed on granulocytes, monocytes and macrophages but not on resting or stimulated lymphocytes.</p> <p>Rat anti Mouse CD88 antibody, clone 10/92 does not block the binding of the C5a to murine CD88 (<a href="#">Souri et al. 2003</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul. Method sheets available on request.
<b>References</b>	<ol style="list-style-type: none"> <li>Soruri, A. <i>et al.</i> (2003) Characterization of C5aR expression on murine myeloid and lymphoid cells by the use of a novel monoclonal antibody. <a href="#">Immunol Lett. 88:47-52.</a></li> <li>Shagdarsuren, E. <i>et al.</i> (2010) C5a Receptor Targeting in Neointima Formation After Arterial Injury in Atherosclerosis-Prone Mice. <a href="#">Circulation. 122: 1026-36.</a></li> <li>Manthey, H.D. <i>et al.</i> (2011) Complement C5a inhibition reduces atherosclerosis in ApoE<sup>-/-</sup> mice. <a href="#">FASEB J. 25: 2447-55.</a></li> <li>Cudaback, E. <i>et al.</i> (2011) Apolipoprotein E isoform-dependent microglia migration. <a href="#">FASEB J. 25: 2082-91.</a></li> <li>Ager, R.R. <i>et al.</i> (2010) Microglial C5aR (CD88) expression correlates with amyloid-beta deposition in murine models of Alzheimer's disease. <a href="#">J Neurochem. 113: 389-401</a></li> <li>Brennan, F.H. <i>et al.</i> (2015) The Complement Receptor C5aR Controls Acute Inflammation and Astrogliosis following Spinal Cord Injury. <a href="#">J Neurosci. 35 (16): 6517-31.</a></li> <li>Li, R. <i>et al.</i> (2013) C5L2: a controversial receptor of complement anaphylatoxin, C5a. <a href="#">FASEB J. 27 (3): 855-64.</a></li> <li>Denny, K.J. <i>et al.</i> (2013) C5a receptor signaling prevents folate deficiency-induced neural tube defects in mice. <a href="#">J Immunol. 190 (7): 3493-9.</a></li> <li>Pavlovski, D. <i>et al.</i> (2012) Generation of complement component C5a by ischemic neurons promotes neuronal apoptosis. <a href="#">FASEB J. 26 (9): 3680-90.</a></li> <li>Benson, M.J. <i>et al.</i> (2017) The effects of C5aR1 on leukocyte infiltration following pilocarpine-induced status epilepticus. <a href="#">Epilepsia. 58 (4): e54-e58.</a></li> <li>Ramstead, A.G. <i>et al.</i> (2016) Roles of Toll-Like Receptor 2 (TLR2), TLR4, and MyD88 during Pulmonary <i>Coxiella burnetii</i> Infection. <a href="#">Infect Immun. 84 (4): 940-9.</a></li> <li>Benson, M.J. <i>et al.</i> (2015) A novel anticonvulsant mechanism via inhibition of complement receptor C5ar1 in murine epilepsy models. <a href="#">Neurobiol Dis. 76: 87-97.</a></li> <li>Hernandez, M.X. <i>et al.</i> (2017) C5a Increases the Injury to Primary Neurons Elicited by Fibrillar Amyloid Beta. <a href="#">ASN Neuro. 9 (1): 1759091416687871.</a></li> </ol>
<b>Storage</b>	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.

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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®649</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

<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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Printed on 01 Aug 2018