

## Datasheet: MCA1824GA

**BATCH NUMBER 173247**

<b>Description:</b>	MOUSE ANTI HUMAN CD89
<b>Specificity:</b>	CD89
<b>Other names:</b>	Immunoglobulin alpha Fc receptor
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MIP8a
<b>Isotype:</b>	IgG1
<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).

	<b>Yes</b>	<b>No</b>	<b>Not Determined</b>	<b>Suggested Dilution</b>
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting			▪	

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>	Antibody purified 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 1.0 mg/ml
<b>Immunogen</b>	Recombinant soluble human Fc alpha R.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P24071</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2204</a>    FCAR    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD89
<b>RRID</b>	AB_324235
<b>Specificity</b>	<p><b>Mouse anti Human CD89 antibody, clone MIP8a</b> recognizes the human CD89 cell surface antigen, a 50-75 kDa cell surface glycoprotein that is also known as the IgA receptor (Fc alpha R).</p> <p>CD89 is expressed by peripheral blood monocytes and neutrophils.</p> <p>MIP8a blocks binding of IgA to the Fc alpha R, and also inhibits neutrophil phagocytosis of IgA complexes.</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells or 100µl whole blood
<b>References</b>	<ol style="list-style-type: none"> <li>Zhang, W. <i>et al.</i> (2000) Neutrophil lactoferrin release induced by IgA immune complexes differed from that induced by cross-linking of fcalpha receptors (FcalphaR) with a monoclonal antibody, MIP8a. <a href="#">Clin Exp Immunol. 121 (1): 106-11.</a></li> <li>Lu, J. <i>et al.</i> (2011) Recognition and functional activation of the human IgA receptor (Fc{alpha}RI) by C-reactive protein. <a href="#">Proc Natl Acad Sci U S A. 108: 4974-9.</a></li> <li>Duc, M. <i>et al.</i> (2010) Antigen binding to secretory immunoglobulin A results in decreased sensitivity to intestinal proteases and increased binding to cellular Fc receptors. <a href="#">J Biol Chem. 285: 953-60.</a></li> <li>Wu, J. <i>et al.</i> (2007) FcαRI (CD89) alleles determine the proinflammatory potential of serum IgA. <a href="#">J Immunol. 178: 3973-82.</a></li> <li>Hamre, R. <i>et al.</i> (2003) Expression and modulation of the human immunoglobulin A Fc receptor (CD89) and the FcR gamma chain on myeloid cells in blood and tissue. <a href="#">Scand J Immunol. 57: 506-16.</a></li> <li>Qian, K. <i>et al.</i> (2008) Functional expression of IgA receptor FcalphaRI on human platelets. <a href="#">J Leukoc Biol. 84: 1492-500.</a></li> <li>Van Egmond, M. (2011) Method for the treatment or prophylaxis of chronic inflammatory diseases. <a href="#">European Patent Application No: 12/736963</a></li> <li>Pascal, V. <i>et al.</i> (2012) Anti-CD20 IgA can protect mice against lymphoma development: evaluation of the direct impact of IgA and cytotoxic effector recruitment on CD20 target cells. <a href="#">Haematologica. 97 (11): 1686-94.</a></li> <li>Mladenov, R. <i>et al.</i> (2015) The Fc-alpha receptor is a new target antigen for</li> </ol>

immunotherapy of myeloid leukemia. [Int J Cancer. 137 \(11\): 2729-38.](#)

10. Aleyd, E. *et al.* (2016) IgA Complexes in Plasma and Synovial Fluid of Patients with Rheumatoid Arthritis Induce Neutrophil Extracellular Traps via FcαRI. [J Immunol. 197 \(12\): 4552-9.](#)

11. van der Steen, L. *et al.* (2009) Immunoglobulin A: Fc(alpha)RI interactions induce neutrophil migration through release of leukotriene B4. [Gastroenterology. 137 \(6\): 2018-29.e1-3.](#)

12. Hamre, R. *et al.* (2003) Expression and modulation of the human immunoglobulin A Fc receptor (CD89) and the FcR gamma chain on myeloid cells in blood and tissue. [Scand J Immunol. 57 \(6\): 506-16.](#)

13. Lu, J. *et al.* (2014) Pentraxins and IgA share a binding hot-spot on FcαRI. [Protein Sci. 23 \(4\): 378-86.](#)

14. Askarian, F. *et al.* (2021) The lytic polysaccharide monooxygenase CbpD promotes *Pseudomonas aeruginosa* virulence in systemic infection. [Nat Commun. 12 \(1\): 1230.](#)

15. Bos, A. *et al.* (2022) Anti-FcαRI Monoclonal Antibodies Resolve IgA Autoantibody-Mediated Disease. [Front Immunol. 13: 732977.](#)

16. Stacey, H.D. *et al.* (2021) IgA potentiates NETosis in response to viral infection. [Proc Natl Acad Sci U S A. 118 \(27\): e2101497118.](#)

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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/MCA1824GA>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
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](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M411690:221104'

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