

## Datasheet: MCA1824

**BATCH NUMBER 150246**

<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>	0.2 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 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>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

**Immunogen** Recombinant soluble human Fc alpha R.

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**External Database**

**Links**

**UniProt:**

[P24071](#) [Related reagents](#)

**Entrez Gene:**

[2204](#) FCAR [Related reagents](#)

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**Synonyms**

CD89

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**RRID**

AB\_322934

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**Specificity**

**Mouse anti Human CD89 antibody, clone MIP8a** 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).

CD89 is expressed by peripheral blood monocytes and neutrophils.

MIP8a blocks binding of IgA to the Fc alpha R, and also inhibits neutrophil phagocytosis of IgA complexes.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood

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**References**

1. Zhang, W. *et al.* (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. [Clin Exp Immunol. 121 \(1\): 106-11.](#)
2. Lu, J. *et al.* (2011) Recognition and functional activation of the human IgA receptor (Fc{alpha}RI) by C-reactive protein. [Proc Natl Acad Sci U S A. 108: 4974-9.](#)
3. Duc, M. *et al.* (2010) Antigen binding to secretory immunoglobulin A results in decreased sensitivity to intestinal proteases and increased binding to cellular Fc receptors. [J Biol Chem. 285: 953-60.](#)
4. Wu, J. *et al.* (2007) FcαRI (CD89) alleles determine the proinflammatory potential of serum IgA. [J Immunol. 178: 3973-82.](#)
5. 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: 506-16.](#)
6. Qian, K. *et al.* (2008) Functional expression of IgA receptor FcalphaRI on human platelets. [J Leukoc Biol. 84: 1492-500.](#)
7. Van Egmond, M. (2011) Method for the treatment or prophylaxis of chronic inflammatory diseases. [European Patent Application No: 12/736963](#)
8. Pascal, V. *et al.* (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. [Haematologica. 97 \(11\): 1686-94.](#)
9. Mladenov, R. *et al.* (2015) The Fc-alpha receptor is a new target antigen for 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.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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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**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/MCA1824>  
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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](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
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 (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto:antibody_sales_uk@bio-rad.com)

'M379792:210415'

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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