

## Datasheet: MCA1824

<b>Description:</b>	MOUSE ANTI HUMAN CD89
<b>Specificity:</b>	CD89
<b>Other names:</b>	Fc ALPHA R
<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).

	Yes	No	Not Determined	Suggested Dilution
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
<b>Immunogen</b>	Recombinant soluble human Fc alpha R.

### External Database Links

#### UniProt:

[P24071](#)

[Related reagents](#)

#### Entrez Gene:

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<b>Synonyms</b>	CD89
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<b>RRID</b>	AB_322934
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<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>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood
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<b>References</b>	<ol style="list-style-type: none"><li>1. 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>2. 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>3. 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>4. 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>5. 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>6. 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>7. 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>8. 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>9. Mladenov, R. <i>et al.</i> (2015) The Fc-alpha receptor is a new target antigen for immunotherapy of myeloid leukemia. <a href="#">Int J Cancer. 137 (11): 2729-38.</a></li><li>10. Aleyd, E. <i>et al.</i> (2016) IgA Complexes in Plasma and Synovial Fluid of Patients with Rheumatoid Arthritis Induce Neutrophil Extracellular Traps via FcαRI. <a href="#">J Immunol. 197 (12): 4552-9.</a></li><li>11. van der Steen, L. <i>et al.</i> (2009) Immunoglobulin A: Fc(alpha)RI interactions induce neutrophil migration through release of leukotriene B4. <a href="#">Gastroenterology. 137 (6): 2018-29.e1-3.</a></li><li>12. 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 (6): 506-16.</a></li><li>13. Lu, J. <i>et al.</i> (2014) Pentraxins and IgA share a binding hot-spot on FcαRI. <a href="#">Protein Sci. 23 (4): 378-86.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>
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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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<b>Guarantee</b>	12 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

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

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

<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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