

Datasheet: MCA1824PE

BATCH NUMBER INN1602

Description:	MOUSE ANTI HUMAN CD89:RPE
Specificity:	CD89
Other names:	Immunoglobulin alpha Fc receptor
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MIP8a
Isotype:	IgG1
Quantity:	100 TESTS

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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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.

Target Species	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Immunogen	Recombinant soluble human Fc alpha R.		

External Database
Links

UniProt:

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

Entrez Gene:

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

Synonyms

CD89

RRID

AB_322535

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.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

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.](#)
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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.](#)

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1824PE>
20487

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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