

Datasheet: MCA1824EL

Description:	MOUSE ANTI HUMAN CD89:Low Endotoxin
Specificity:	CD89
Other names:	Fc ALPHA R
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	MIP8a
Isotype:	IgG1
Quantity:	0.5 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/50 - 1/100
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation	■			
Western Blotting	■			
Functional Assays	■			

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.

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Endotoxin Level	<0.01EU/ug
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant soluble human Fc alpha R.
External Database	UniProt:

Links

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

Entrez Gene:

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

Synonyms

CD89

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.](#)
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 \(12\): 4552-4559.](#)

Storage

Store at -20°C only.

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA928EL\)](#)

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