

SM1198F**Monoclonal Antibody to CD89 / FCAR - FITC**

Alternate names:	IgA Fc receptor, Immunoglobulin alpha Fc receptor
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD89 is a 50-75kD cell surface glycoprotein that is also known as the IgA receptor (Fc alpha R). CD89 is expressed by peripheral blood monocytes and neutrophils.
Uniprot ID:	P24071
NCBI:	NP_001991.1
GeneID:	2204
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10F (for use in human samples)
Clone:	MIP8a
Immunogen:	Recombinant soluble Human FcαR.
Format:	State: Liquid purified IgG fraction Buffer System: PBS, pH 7.4 Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat diluted antibody to label 10 ⁶ cells or 100 µl. The preservative free format of this antibody is recommended for Functional Studies. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the CD89 cell surface antigen, a 50-75kD cell surface glycoprotein that is also known as the IgA receptor (Fc alpha R). Clone MIP8a blocks binding of IgA to the Fc alpha R, and also inhibits neutrophil phagocytosis of IgA complexes. Species: Human. Other species not tested.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Zhang W, Bi B, Oldroyd RG, Lachmann PJ. 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. 2000 Jul;121(1):106-11. PubMed PMID: 10886246. 2. Lu J, Marjon KD, Marnell LL, Wang R, Mold C, Du Clos TW, et al. Recognition and functional activation of the human IgA receptor (FcalphaRI) by C-reactive protein. Proc

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3. Duc M, Johansen FE, Corthésy B. Antigen binding to secretory immunoglobulin A results in decreased sensitivity to intestinal proteases and increased binding to cellular Fc receptors. J Biol Chem. 2010 Jan 8;285(2):953-60. doi: 10.1074/jbc.M109.059220. Epub 2009 Nov 12. PubMed PMID: 19910466.
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 5. Hamre R, Farstad IN, Brandtzaeg P, Morton HC. 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. 2003 Jun;57(6):506-16. PubMed PMID: 12791088.
 6. Qian K, Xie F, Gibson AW, Edberg JC, Kimberly RP, Wu J. Functional expression of IgA receptor FcαRI on human platelets. J Leukoc Biol. 2008 Dec;84(6):1492-500. doi: 10.1189/jlb.0508327. Epub 2008 Sep 10. PubMed PMID: 18784345.
 7. Van Egmond, M. (2011) Method for the treatment or prophylaxis of chronic inflammatory diseases. European Patent Application No: 12/736963