

CD89 Antibody | anti-CD89 antibody

Anti-Hu CD89 APC

CATALOG # AAA129222	REACTIVITY Human, Non-human primates	APPLICATIONS Flow Cytometry, Functional Assay
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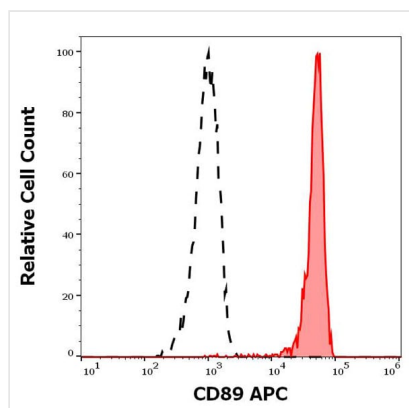
PRODUCT SYNONYMS

CD89; Anti-Hu CD89 APC; Fc fragment of IgA receptor; FcαRI; FcAR; CTB-61M7.2; anti-CD89 antibody

PRODUCT SPECIFICATIONS

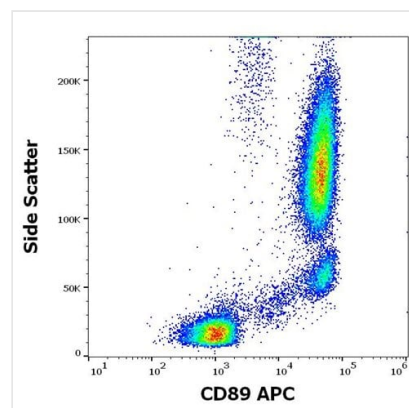
Reactivity	Human, Non-human primates
Isotype	Mouse IgG1 kappa
Clone Number	A59
Specificity	The mouse monoclonal antibody A59 recognizes an extracellular epitope of CD89, a 55-100 kDa glycoprotein serving as a receptor for IgA and expressed mainly on granulocytes, monocytes and macrophages.
Form/Format	APC Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m
Applicable Applications for anti-CD89 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Ag8.653 myeloma cells
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD89 (A59) APC antibody (10 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD89 (A59) APC antibody (10 ?l reagent / 100 ?l of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD89 antibody	CD89 (Fc-alpha-R) is a type I transmembrane glycoprotein serving as a receptor for IgA. Soluble CD89 is detectable in serum and retains its IgA binding capacity. For signal transduction the association with FcR gamma chain homodimers is needed. CD89 is expressed on granulocytes, monocytes, macrophages, dendritic cells and myeloid cell lines. Its expression is upregulated in presence of IgA immune complexes, stimulators (such as LPS, PMA), TNF alpha, IL1 beta or GM-CSF, and it is downregulated in presence of TGF beta and suramin. Binding of IgA-opsonized targets to CD89 leads to phagocytic and cytotoxic processes of the immunologic defense.
References	*Barratt J, Greer MR, Pawluczyk IZ, Allen AC, Bailey EM, Buck KS, Feehally J: Identification of a novel Fc alpha receptor expressed by human mesangial cells. <i>Kidney Int.</i> 2000 May;57(5):1936-48., URL: https://www.ncbi.nlm.nih.gov/pubmed/10792612, *Wu J, Ji C, Xie F, Langefeld CD, Qian K, Gibson AW, Edberg JC, Kimberly RP: Fc alpha RI (CD89) alleles determine the proinflammatory potential of serum IgA. <i>J Immunol.</i> 2007 Mar 15;178(6):3973-82., URL: https://pubmed.ncbi.nlm.nih.gov/17339498/, *Rogers KA, Scinicariello F, Attanasio R: Identification and characterization of macaque CD89 (immunoglobulin A Fc receptor). <i>Immunology.</i> 2004 Oct;113(2):178-86., URL: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC17825, *van Dijk TB, Bracke M, Caldenhoven E, Raaijmakers JA, Lammers JW, Koenderman L, de Groot RP: Cloning and characterization of Fc alpha Rb, a novel Fc alpha receptor (CD89) isoform expressed in eosinophils and neutrophils. <i>Blood.</i> 1996 Dec 1;88(11):4229-38., URL: http://www.ncbi.nlm.nih.gov/pubmed/8943858, *van Egmond M, van Sriel AB, Vermeulen H, Huls G, van Garderen E, van de Winkel JG: Enhancement of polymorphonuclear cell-mediated tumor cell killing on simultaneous engagement of fcgamma RI (CD64) and fcalpha RI (CD89). <i>Cancer Res.</i> 2001 May 15;61(10):4055-60., URL: https://pubmed.ncbi.nlm.nih.gov/11358825/, *Honorio-França AC, Launay P, Carneiro-Sampaio MM, Monteiro RC: Colostral neutrophils express Fc alpha receptors (CD89) lacking gamma chain association and mediate noninflammatory properties of secretory IgA. <i>J Leukoc Biol.</i> 2001 Feb;69(2):289-96., URL: https://www.ncbi.nlm.nih.gov/pubmed/11272280, *Schenk M, Bouchon A, Seibold F, Mueller C: TREM-1--expressing intestinal macrophages crucially amplify chronic inflammation in experimental colitis and inflammatory bowel diseases. <i>J Clin Invest.</i> 2007 Oct;117(10):3097-106., URL: https://www.ncbi.nlm.nih.gov/pubmed/17853946,

NCBI AND UNIPROT INFORMATION

NCBI GI #	119860
NCBI GeneID	2204
UniProt Accession #	P24071 ; Q13603 ; Q13604 ; Q15727 ; Q15728 ; Q1AJL7 ; Q1AJL8 ; Q1AJL9 ; Q53X38 ; Q53X39 ; Q92587 ; Q92588
Molecular Weight	28,343 Da
NCBI Official Full Name	Immunoglobulin alpha Fc receptor
NCBI Official Synonym Full Names	Fc fragment of IgA receptor
NCBI Official Symbol	FCAR
NCBI Official Synonym Symbols	CD89; Fc alpha RI; CTB-61M7.2
NCBI Protein Information	immunoglobulin alpha Fc receptor
UniProt Protein Name	Immunoglobulin alpha Fc receptor
UniProt Gene Name	FCAR
UniProt Synonym Gene Names	CD89; IgA Fc receptor

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/human-primate-antibody/cd89/129222>