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## anti-FCAR antibody (APC)

2 Images



Go to Product page

#### Overview

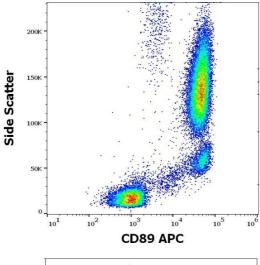
Quantity:	100 tests
Target:	FCAR
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FCAR antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

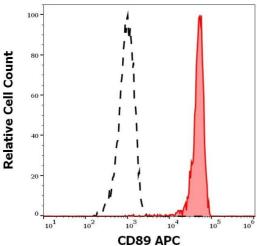
#### **Product Details**

Purpose:	Anti-Hu CD89 APC
Immunogen:	Ag8.653 myeloma cells
Clone:	A59
Isotype:	IgG1 kappa
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.
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

### **Target Details**

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Target:	FCAR
Alternative Name:	CD89 (FCAR Products)
Background:	Fc fragment of IgA receptor, 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.,FcalphaRI, FcAR, CTB-61M7.2
Gene ID:	2204
UniProt:	P24071
Application Details	
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent
	/ 100 $\mu L$ of whole blood or $10^6$ cells in a suspension. The content of a vial (1 ml) is sufficient for
	100 tests.
Restrictions:	For Research Use only
Handling	
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.





#### **Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD89 (A59) APC antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).

#### **Flow Cytometry**

**Image 2.** 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  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).