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30-2908: Anti-Hu CD89 APC Mab (A59)

Clonality :	Monoclonal
Clone Name :	A59
Application :	FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	APC
Gene :	FCAR
Gene ID :	2204
Uniprot ID :	P24071
Alternative Name :	FcalphaRI, FcAR, CTB-61M7.2
Isotype :	Mouse IgG1 kappa
Immunogen Information :	Ag8.653 myeloma cells

Description

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.

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.

Product Info

Amount :	100 Tests
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

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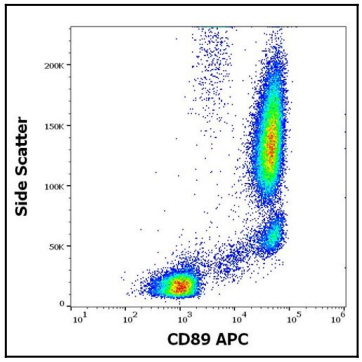

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD89 (A59) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).

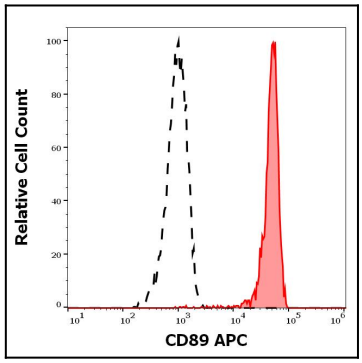

Figure 2: Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD89 (A59) APC antibody (10 Î¼l reagent / 100 Î¼l of peripheral whole blood).