

Product datasheet for **SM1072APC**

CD16 (FCGR3A) Mouse Monoclonal Antibody [Clone ID: 3G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G8
Applications:	FC
Recommended Dilution:	Flow Cytometry 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.
Reactivity:	Human, Monkey, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human neutrophils
Specificity:	This antibody recognizes CD16, a low affinity receptor for aggregated IgG (Fcγ ₃ R1 antigen). CD16 exists in two different isoforms: CD16a (Fcγ ₃ R1A; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b (Fcγ ₃ R1B; 48 kDa; mainly expressed on neutrophils).
Formulation:	PBS Label: APC State: Liquid purified IgG fraction Preservative: 15 mM sodium azide Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	APC
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	Fc fragment of IgG receptor IIIa
Database Link:	Entrez Gene 2214 Human P08637



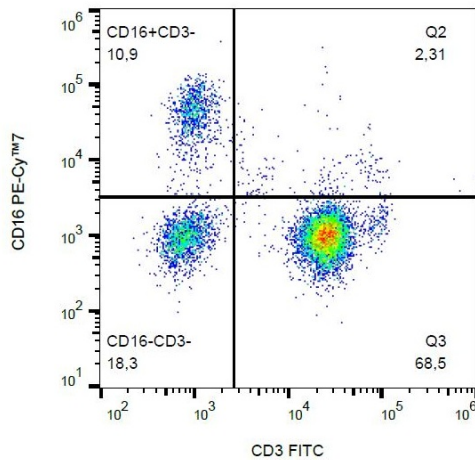
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Background:

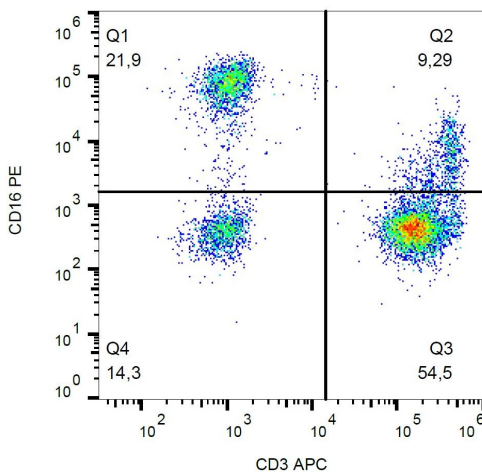
CD16 (FcγRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcγRIII is expressed in two forms – FcγRIII-A and -B. FcγRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FcεRI-gamma subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcγRIII-A is associated, moreover, with FcεRI-beta subunit. Besides IgG, FcγRIII-A can be triggered also by oligomeric IgE. FcγRIII-B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.

Synonyms:

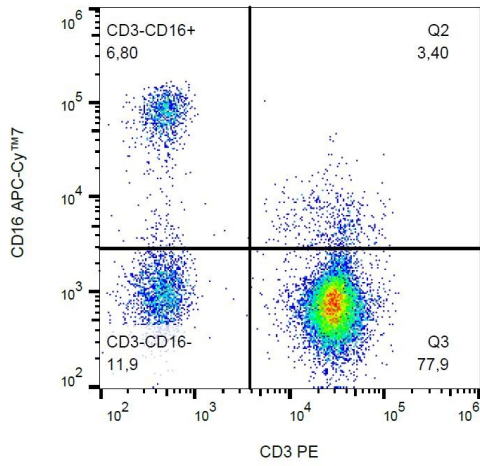
FCGR3A, CD16A, FCG3, FCGR3, IGFR3, Fc-gamma RIII-alpha, Fc-gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc receptor III-2

Product images:


Surface staining of CD16 in human peripheral blood with anti-CD16 (3G8) PE-CyTM7.



Surface staining of CD16 in human peripheral blood with anti-CD16 (3G8) PE.



Surface staining of CD16 in human peripheral blood with anti-CD16 (3G8) APC-Cy™7.