

Product datasheet for **SM1072LE**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G8
Applications:	FC, FN, IHC, IP
Recommended Dilution:	Flow cytometry: 6 µg/ml. Immunoprecipitation. Immunohistochemistry (frozen sections): acetone fixation. Functional application: In vitro Stimulation of NK cell proliferation, blocking of IgG binding and phagocytosis, inhibition of cytotoxic activity, in vivo NK cell depletion.
Reactivity:	Human, 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:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Low Endotoxin State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	Fc fragment of IgG receptor IIIa



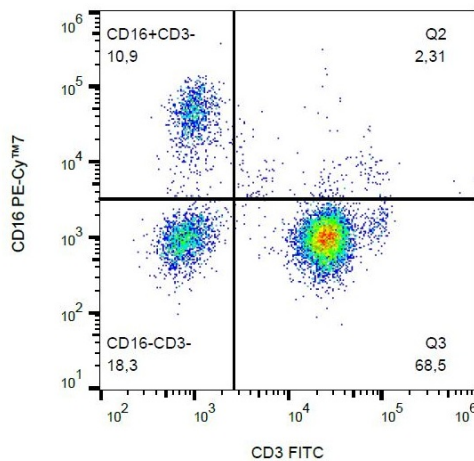
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Database Link: [Entrez Gene 2214 Human P08637](#)

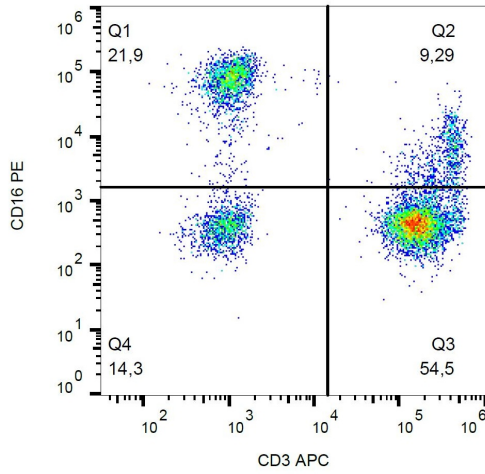
Background: CD16 (FcγRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcγRIII is expressed in two forms – FcγRIII-A and -B. FcγRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FcεRI-gamma subunit and is 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

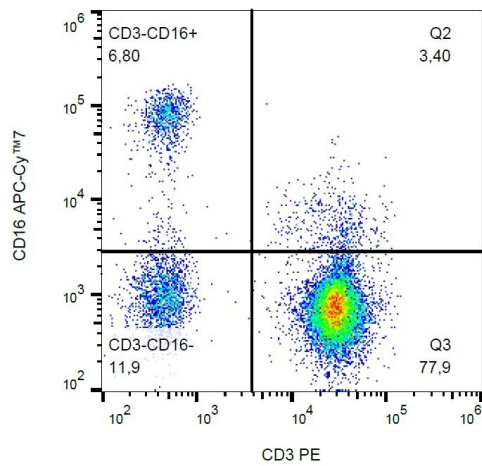
Product images:



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.