

Product datasheet for **SM1072PP**

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, Primate |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Human neutrophils |
| Specificity: | This antibody recognizes CD16, a low affinity receptor for aggregated IgG (FcγRIII antigen). CD16 exists in two different isoforms: CD16a (FcγRIIIA; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b (FcγRIIIB; 48 kDa; mainly expressed on neutrophils). |
| Formulation: | Phosphate buffered saline (PBS) Label: PerCP State: Liquid purified Ig fraction Preservative: 15 mM sodium azide Label: Conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. |
| Conjugation: | PerCP |
| Storage: | Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | Entrez Gene 2214 Human P08637 |



[View online »](#)

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-γ subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcγRIII-A is associated, moreover, with FcεRI-β 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