

## 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: | <b>Flow Cytometry analysis</b> of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension.<br>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 (FcgammaRIII antigen). CD16 exists in two different isoforms: CD16a (FcgammaRIIIA; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b (FcgammaRIIIB; 48 kDa; mainly expressed on neutrophils).                        |
| Formulation:          | Phosphate buffered saline (PBS)<br>Label: PerCP<br>State: Liquid purified Ig fraction<br>Preservative: 15 mM sodium azide<br>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!<br>This products 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:        | <a href="#">Entrez Gene 2214 Human P08637</a>   |



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| <b>Background:</b> | CD16 (FcgammaRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcgammaRIII is expressed in two forms – FcgammaRIII-A and -B. FcgammaRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FcepsilonRI-gamma subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcgammaRIII-A is associated, moreover, with FcepsilonRI-beta subunit. Besides IgG, FcgammaRIII-A can be triggered also by oligomeric IgE. FcgammaRIII-B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype. |
| <b>Synonyms:</b>   | FCGR3A, CD16A, FCG3, FCGR3, IGFR3, Fc-gamma RIII-alpha, Fc-gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcR-10, IgG Fc receptor III-2  |