

Product datasheet for **SM3011R**

CD16 (FCGR3A) Mouse Monoclonal Antibody [Clone ID: MEM-154]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-154
Applications:	FC
Recommended Dilution:	Flow Cytometry: Analysis of Human blood cells using 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human granulocytes
Specificity:	This antibody reacts with the epitope on CD16 antigen that residing in proximity to FG loop (probably BC or C'E loop). CD16 is a low affinity receptor for aggregated IgG (FcγRIII antigen). The antibody reacts with CD16+ granulocytes.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM Sodium Azide as preservative Label: PE State: Liquid purified IgG fraction Label: Conjugated with R-Phycoerythrin under optimum conditions
Purification:	Size-Exclusion Chromatography.
Conjugation:	PE
Storage:	Store the antibody 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



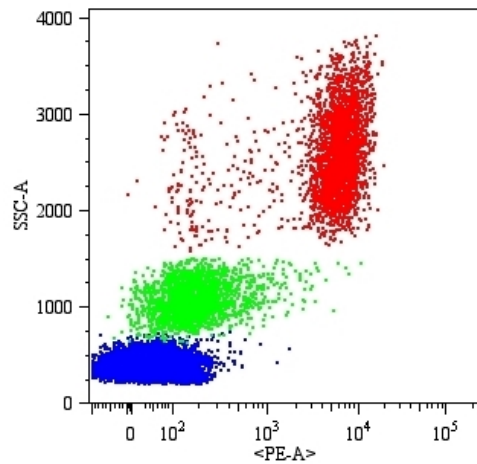
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Background:

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-γ subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcγRIII-A is associated, moreover, with FcεRI-β subunit. Besides IgG, FcεRI-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 human peripheral blood cells with anti-human CD16 (MEM-154) PE. The antibody MEM-154 does not react with CD16a present on NK cells in many subjects.