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Product datasheet for SM3011F

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 10e6 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:	The 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 (FcgRIII antigen). The antibody MEM-154 reacts with CD16+ granulocytes.
Formulation:	PBS containing 15 mM Sodium Azide as preservative and 0.2% (w/v) high-grade Protease free BSA as a stabilizing agent. Label: FITC State: Liquid purified Ig fraction. Label: Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated
Conjugation:	FITC
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 (FcgRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcgRIII is expressed in two forms FcgRIII-A and -B. FcgRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FceRI-g subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcgRIII-A is associated, moreover, with FceRI-b subunit. Besides IgG, FceRI-A can be triggered also by oligomeric IgE. FcgRIII-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