

Product datasheet for **SM3011AS**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-154
Applications:	FC, FN, IP, WB
Recommended Dilution:	Flow Cytometry: 5-10 µg/ml. <i>Positive Control:</i> PBL (peripheral blood lymphocytes). <i>Application Note:</i> The antibody MEM-154 does not react with CD16a present on NK cells in many subjects. Immunoprecipitation. Western Blotting (Non-reducing conditions). Functional Assay (The antibody blocks binding of Human IgG to FcγRIII).
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 (FcγRIII antigen). The antibody reacts with CD16+ granulocytes.
Formulation:	Azide free PBS, pH~7.4 preserved by 0.2 µm filter sterilization. State: Azide Free State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein-A.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
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-g subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcγRIII-A is associated, moreover, with FcεRI-b 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