

Product datasheet for **AM03075PU-N**

CD16 (FCGR3A) Mouse Monoclonal Antibody [Clone ID: MEM-168]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-168
Applications:	FC
Recommended Dilution:	Suitable for Flow Cytometry: 1-4 µg/ml.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Human granulocytes
Specificity:	The antibody MEM-168 reacts with CD16 antigen (isoform CD16a). CD16a (FcγRIIIA; 50-65 kDa) is a transmembrane form of CD16, expressed on NK-cells, monocytes and macrophages.
Formulation:	PBS with 15 mM sodium azide as preservative State: Purified State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Gel filtration and Precipitation methods
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
Database Link:	Entrez Gene 2214 Human P08637



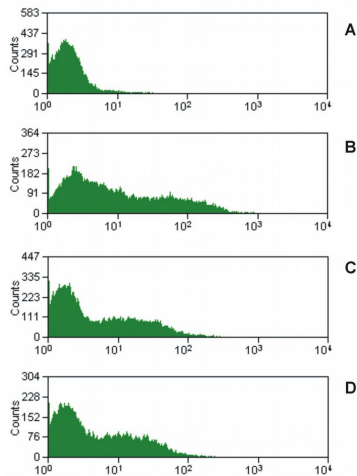
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Background:

CD16 (FcγRIII) is a 50-80 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 lysed and washed porcine peripheral blood with purified anti-CD16 (MEM-168) (detection by anti-mouse IgM FITC). Panel A - porcine PBMC stained with Isotype mouse IgM control (PFR-03) Panel B, C, D - three different porcine PMBC samples stained with anti-CD16 (MEM-168) Cells in the granulocyte gate were used for analysis.