

30-1642: Anti-CD16 / Fcγ₃ Monoclonal Antibody (Clone:3G8)-Low Endotoxin

Clonality :	Monoclonal
Clone Name :	3G8
Application :	FACS
Reactivity :	Human
Gene :	FCGR3A
Gene ID :	2214
Uniprot ID :	P08637
Format :	Low Endotoxin
Alternative Name :	FCGR3A,CD16A,FCG3,FCGR3,IGFR3
Isotype :	Mouse IgG1
Immunogen Information :	Human neutrophils

Description

CD16 (Fcγ₃) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human Fcγ₃ is expressed in two forms - Fcγ₃-A and -B. Fcγ₃-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 Fcγ₃-A is associated, moreover, with FcεRI-β subunit. Besides IgG, Fcγ₃-A can be triggered also by oligomeric IgE. Fcγ₃-B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry *Recommended dilution:* 6 μg/ml

Immunoprecipitation Immunohistochemistry (frozen sections) *Application note:* acetone fixation

Functional Application In vitro Stimulation of NK cell proliferation, blocking of IgG binding and phagocytosis, inhibition of cytotoxic activity, in vivo NK cell depletion

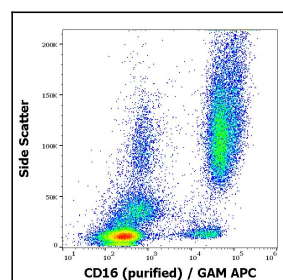


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 1½g/ml, GAM APC).

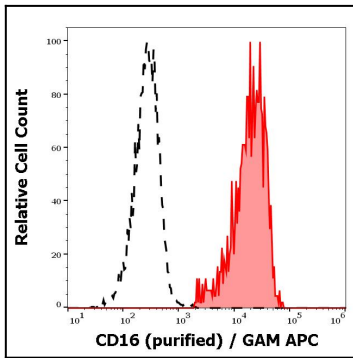


Figure 2: Separation of human CD16 positive lymphocytes (red-filled) from CD16 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 1¹/₄g/ml, GAM APC).