

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

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

### Description

CD16 (FcgammaRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcgammaRIII is expressed in two forms - FcgammaRIII-A and -B. FcgammaRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FcepsilonRI-gamma subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcgammaRIII-A is associated, moreover, with FcepsilonRI-beta subunit. Besides IgG, FcgammaRIII-A can be triggered also by oligomeric IgE. FcgammaRIII-B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.

### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	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

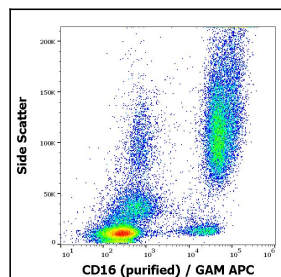


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 1/4g/ml, GAM APC).

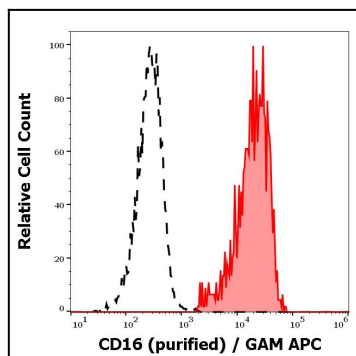


Figure 2: Separation of human CD16 positive lymphocytes (red-filled) from CD16 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2  $\hat{1}$ /<sub>4</sub>g/ml, GAM APC).