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# 30-1642: Anti-CD16 / FcgammaRIII 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 (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

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| **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

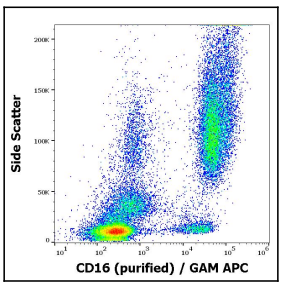



Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 Î¼g/ml, GAM APC).

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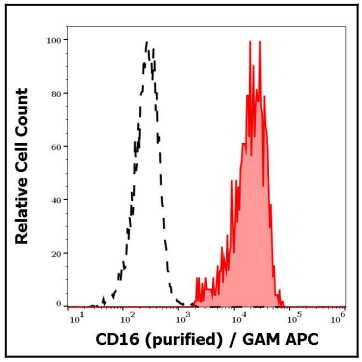



Figure 2: Separation of human CD16 positive lymphocytes (red-filled) from CD16 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 Î¼g/ml, GAM APC).

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