

## 30-1642: Anti-CD16 / Fcγ<sub>3</sub> 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 (Fcγ<sub>3</sub>) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human Fcγ<sub>3</sub> is expressed in two forms - Fcγ<sub>3</sub>-A and -B. Fcγ<sub>3</sub>-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 Fcγ<sub>3</sub>-A is associated, moreover, with FcεRI-β subunit. Besides IgG, Fcγ<sub>3</sub>-A can be triggered also by oligomeric IgE. Fcγ<sub>3</sub>-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

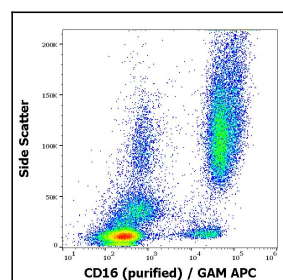


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 1½g/ml, GAM APC).

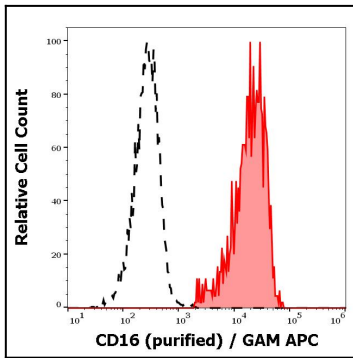


Figure 2: Separation of human CD16 positive lymphocytes (red-filled) from CD16 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD16 (3G8) purified antibody (concentration in sample 2 1<sup>1</sup>/<sub>4</sub>g/ml, GAM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