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# 30-2645: Anti-Human CD16 PE-DyLight® 594 (Clone : 3G8)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | 3G8 |
| **Application :** | FACS |
| **Reactivity :** | Human |
| **Gene :** | FCGR3A |
| **Gene ID :** | 2214 |
| **Alternative Name :** | FcgammaRIII, IGFR3, FCRIII, |
| **Isotype :** | Mouse IgG1 kappa |
| **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.
Specificity : The mouse monoclonal antibody 3G8 recognizes an extracellular epitope of CD16, a low affinity receptor for aggregated IgG (FcgammaRIII antigen). CD16 exists in two different isoforms: CD16a (FcgammaRIIIA; 50-65 kDa; expressed on NK-cells, monocytes and macrophages) and CD16b (FcgammaRIIIB; 48 kDa; mainly expressed on neutrophils).

## Product Info

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| **Amount :** | 100 tests |
| **Purification :** | The purified antibody is conjugated with tandem dye PE-DyLight® 594 under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| **Content :** | Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide |
| **Storage condition :** | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. |

## Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or $10^6$ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

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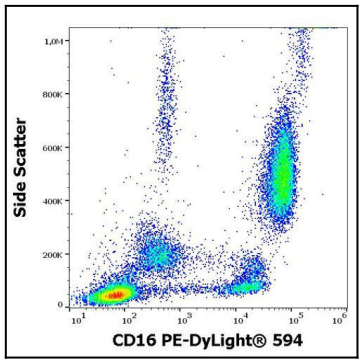


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD16 (3G8) PE-DyLight® 594 antibody (4 µl reagent / 100 µl of peripheral whole blood).

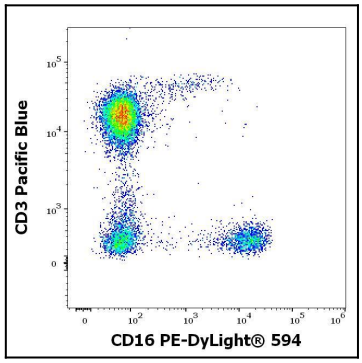


Figure 2 : Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD16 (3G8) PE-DyLight® 594 antibody (4 µl reagent / 100 µl of peripheral whole blood) and anti-human CD3 (UCHT1) Pacific Blue™ antibody (4 µl reagent / 100 µl of peripheral whole blood).

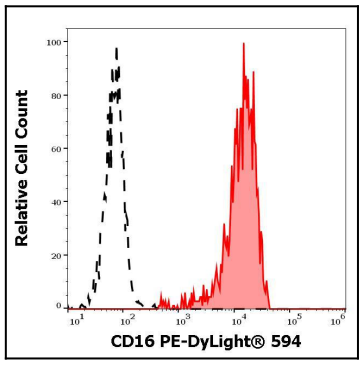


Figure 3 :Separation of human CD16 positive CD3 negative NK cells (red-filled) from CD16 negative CD3 positive T cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD16 (3G8) PE-DyLight® 594 antibody (4 µl reagent / 100 µl of peripheral whole blood).