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# PE/Cyanine7 Anti-Human CD16 Antibody[3G8]

Catalog Number: E-AB-F1236H

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Reactivity Human;Rhesus;Cynomolgus

Host Mouse

**Isotype** Mouse IgG1, κ

Clone No. 3G8

Isotype Control PE/Cyanine7 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792H]

Conjugation PE/Cyanine 7

Conjugation Information PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm

(e.g., a 780/60 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

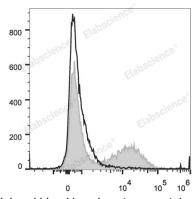
# Applications Recommended usage

FCM Each lot of this antibody is quality control tested by flow cytometric analysis. The amount

of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for

individual use.

#### **Data**



Human peripheral blood lymphocytes are stained with PE/Cyanine7 Anti-Human CD16 Antibody (filled gray histogram) or mouse IgG1 Isotype Control PE/Cyanine7 (empty black histogram).

# **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping lce bag

# **Antigen Information**

Alternate Names Fc gamma receptor;Fc gamma receptor 3;FcyRIII

**Uniprot ID** P08637;O75015

Gene ID 941

# For Research Use Only

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# **Background**

CD16 is a 60 kD highly glycosylated protein. It is a member of the lg superfamily and is also known as B7-1, B7, and Ly-53. CD16 is constitutively expressed on dendritic cells and monocytes/macrophages, and inducibly expressed on activated B and T cells. The ligation of CD28 on T cells with CD16 and CD86 (B7-2) on antigen presenting cells ( such as dendritic cells, macrophages, and B cells) elicits co-stimulation of T cells resulting in enhanced cell activation, proliferation, and cytokine production. CD16 appears to be expressed later in the immune response than CD86. CD16 can also bind to CD152, also known as CTLA-4, to deliver an inhibitory signal to T cells.

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