

A Reliable Research Partner in Life Science and Medicine

# Elab Fluor® 647 Anti-Human CD16 Antibody[3G8]

Catalog Number: E-AB-F1236M

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 Elab Fluor® 647 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792M]

Conjugation Elab Fluor® 647

**Conjugation Information** Elab Fluor<sup>®</sup> 647 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter).

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

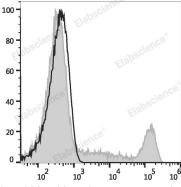
#### Applications

#### 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 Elab

Fluor<sup>®</sup> 647 Anti-Human CD16 Antibody (filled gray histogram) or Elab Fluor<sup>®</sup> 647 Mouse IgG1, κ Isotype Control (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

Rev. V1.9

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

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

Uniprot ID P08637:075015

Gene ID 941

### For Research Use Only

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# Elabscience®

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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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