

## APC Anti-Human/Monkey CD16 Antibody[3G8]

Catalog Number: E-AB-F1236E

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

### Description

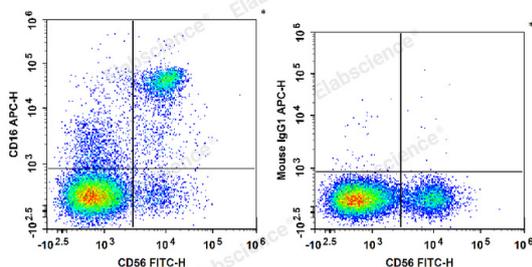
|                         |  |
|-------------------------|--|
| Reactivity              | Human;Rhesus;Cynomolgus  |
| Host                    | Mouse  |
| Isotype                 | Mouse IgG1, κ  |
| Clone No.               | 3G8  |
| Isotype Control         | APC Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792E]  |
| Conjugation             | APC  |
| Conjugation Information | APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 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. <b>The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).</b> 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 FITC Anti-Human CD56 Antibody and APC Anti-Human/Monkey CD16 Antibody (Left). Lymphocytes are stained with FITC Anti-Human CD56 Antibody and APC Mouse IgG1, κ Isotype Control (Right).

### Preparation & Storage

|          |   |
|----------|---|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag   |

### Antigen Information

|                 |   |
|-----------------|---|
| Alternate Names | Fc gamma receptor;Fc gamma receptor 3;FcγRIII |
| Uniprot ID      | P08637;O75015                                 |
| Gene ID         | 941   |

### For Research Use Only

## Background

CD16 is a 60 kD highly glycosylated protein. It is a member of the Ig 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.