

## PE/Cyanine5.5 Anti-Mouse CD80 Antibody[16-10A1]

Catalog Number: GFH0992I

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

### Description

|                         |                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                        |
| Host                    | Armenian Hamster                                                                                                                                                                                             |
| Isotype                 | Armenian Hamster IgG                                                                                                                                                                                         |
| Clone No.               | 16-10A1                                                                                                                                                                                                      |
| Isotype Control         | PE/Cyanine5.5 Armenian Hamster IgG Isotype Control[PIP] [Product E-AB-F09852I]                                                                                                                               |
| Conjugation             | PE/Cyanine 5.5                                                                                                                                                                                               |
| Conjugation Information | PE/Cyanine5.5 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 690 nm (e.g., a 690/50 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                          |

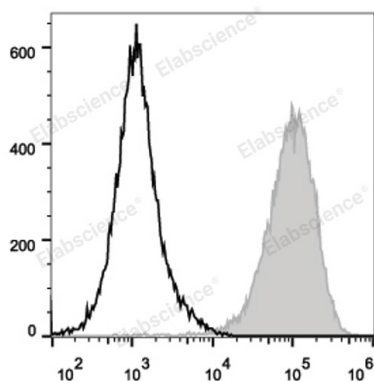
### Applications

### 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



Mouse abdominal macrophages elicited by starch broth are stained with PE/Cyanine5.5 Anti-Mouse CD80 Antibody (filled gray histogram). Unstained macrophages (blank black histogram) are used as control.

### Preparation & Storage

|          |                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze. |
| Shipping | Ice bag                                                                                                                                                   |

### Antigen Information

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| Alternate Names | Activation B7-1 antigen;B7;Cd80;T-lymphocyte activation antigen CD80 |
| Gene ID         | 12519                                                                |

### For Research Use Only

## Background

CD80 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. CD80 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 CD80 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. CD80 appears to be expressed later in the immune response than CD86. CD80 can also bind to CD152, also known as CTLA-4, to deliver an inhibitory signal to T cells.