

## PE Anti-Human CD28 Antibody[CD28.2]

**Catalog Number:** GFH1195D

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

### Description

|                                |                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>              | Human                                                                                                                                                                                             |
| <b>Host</b>                    | Mouse                                                                                                                                                                                             |
| <b>Isotype</b>                 | Mouse IgG1, κ                                                                                                                                                                                     |
| <b>Clone No.</b>               | CD28.2                                                                                                                                                                                            |
| <b>Isotype Control</b>         | PE Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792D]                                                                                                                                  |
| <b>Conjugation</b>             | PE                                                                                                                                                                                                |
| <b>Conjugation Information</b> | PE 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 575 nm (e.g., a 585/42 nm bandpass filter). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                               |

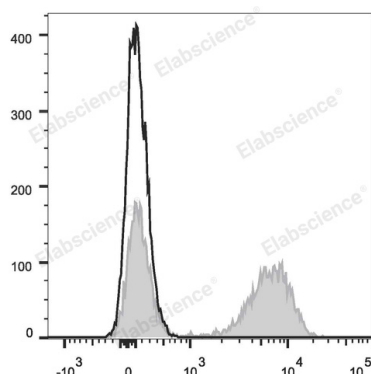
### Applications

**FCM**

### Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. **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).** 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 Anti-Human CD28 Antibody (filled gray histogram) or Mouse IgG1 Isotype Control PE/Cyanine7 (empty black histogram).

### Preparation & Storage

|                 |                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | 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. |
| <b>Shipping</b> | Ice bag                                                                                                                                                   |

### Antigen Information

|                        |                            |
|------------------------|----------------------------|
| <b>Alternate Names</b> | GPSAT;GYPA;HGpMiX;MNS;PAS2 |
| <b>Gene ID</b>         | 940                        |

### For Research Use Only

## Background

CD28 is a 44 kD disulfide-linked homodimeric type I glycoprotein. It is a member of the immunoglobulin superfamily and is also known as T44 or Tp44. CD28 is expressed on most T lineage cells, NK cell subsets, and plasma cells. CD28 binds both CD80 and CD86 using a highly conserved motif MYPPY in the CDR3-like loop. CD28 is considered a major co-stimulatory molecule, inducing T lymphocyte activation and IL-2 synthesis, and preventing cell death. In vitro studies indicate that ligation of CD28 on T cells by CD80 and CD86 on antigen presenting cells provides a costimulatory signal required for T cell activation and proliferation.