

## PE/Cyanine7 Anti-Human CD90 Antibody[5E10]

**Catalog Number:** GFH1167H

**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>               | 5E10                                                                                                                                                                                                       |
| <b>Isotype Control</b>         | PE/Cyanine7 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792H]                                                                                                                                  |
| <b>Conjugation</b>             | PE/Cyanine 7                                                                                                                                                                                               |
| <b>Conjugation Information</b> | 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). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                        |

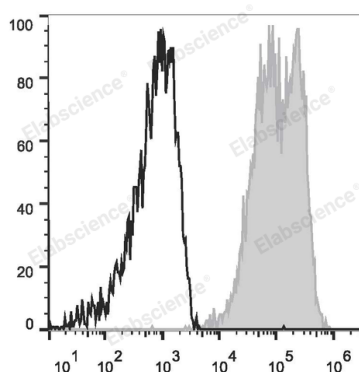
### Applications

**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 erythroleukemic cell line (HEL) are stained with PE/Cyanine7 Anti-Human CD90 Antibody (filled gray histogram) or Mouse IgG1 Isotype Control PE/Cyanine7 (empty black histogram).

### Preparation & Storage

|                 |                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Keep as concentrated solution.<br>Store at 2-8°C and protected from prolonged exposure to light. Do not freeze. |
| <b>Shipping</b> | Ice bag                                                                                                         |

### Antigen Information

|                        |                         |
|------------------------|-------------------------|
| <b>Alternate Names</b> | CDw90;FLJ33325;T25;Thy1 |
| <b>Uniprot ID</b>      | P04216                  |
| <b>Gene ID</b>         | 7070                    |

### For Research Use Only

## Background

CD90 is a 25-35 kD GPI-anchored protein, also known as Thy-1. It belongs to the Ig superfamily. Human CD90 is expressed on neuronal cells, a subset of CD34+ cells, a subset of fetal liver cells and fetal thymocytes, fibroblasts, activated endothelial cells, and some leukemia cell lines. CD34+CD90+ cells are primitive hematopoietic stem cells. It has been reported that Thy-1 binds with  $\beta 2$  and  $\beta 3$  integrins and plays bimodal roles in the regulation of cell adhesion and neurite outgrowth, and inhibits hematopoietic stem cells proliferation and differentiation.