

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

Catalog Number: E-AB-F1167H

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 and 1% BSA.

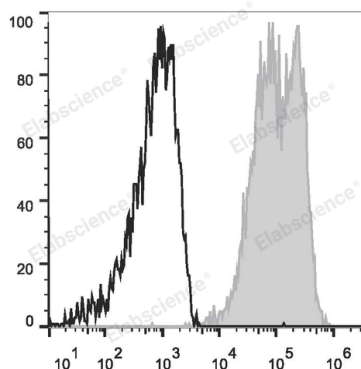
### Applications

### 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 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. 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.