

## PE/Cyanine7 Anti-Human CD7 Antibody[HIT7]

**Catalog Number:** GFH1315H

**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>               | HIT7                                                                                                                                                                                                       |
| <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.                                                                                                                                        |

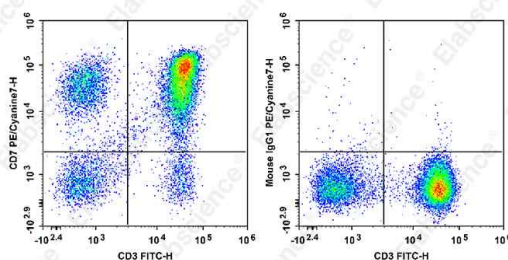
### Applications

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 peripheral blood lymphocytes are stained with FITC Anti-Human CD3 Antibody and PE/Cyanine7 Anti-Human CD7 Antibody[HIT7] (Left). Lymphocytes are stained with FITC Anti-Human CD3 Antibody and PE/Cyanine7 Mouse IgG1, κ Isotype Control (Right).

### 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

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|------------------------|----------------------------------------------------------------------------------------|
| <b>Alternate Names</b> | CD7;GP40;T-cell antigen CD7;T-cell leukemia antigen;T-cell surface antigen Leu-9; TP41 |
|------------------------|----------------------------------------------------------------------------------------|

### For Research Use Only

**Uniprot ID**

P09564

**Gene ID**

924

**Background**

CD7 is a 40 kD type I transmembrane glycoprotein also known as gp40. It is a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL) and some acute myeloid leukemia (AML) cells. CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 costimulation can induce cytokine secretion and modulate cellular adhesion.