

## PE/Cyanine5 Anti-Mouse CD122 Antibody[TM-Beta 1]

**Catalog Number:** GFH00418UG

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

### Description

|                                |                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>              | Mouse                                                                                                                                                                                                      |
| <b>Host</b>                    | Rat                                                                                                                                                                                                        |
| <b>Isotype</b>                 | Rat IgG2b, $\kappa$                                                                                                                                                                                        |
| <b>Clone No.</b>               | TM-Beta 1                                                                                                                                                                                                  |
| <b>Isotype Control</b>         | PE/Cyanine5 Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09842G]                                                                                                                              |
| <b>Conjugation</b>             | PE/Cyanine 5                                                                                                                                                                                               |
| <b>Conjugation Information</b> | PE/Cyanine5 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 670 nm (e.g., a 690/50 nm bandpass filter). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                        |

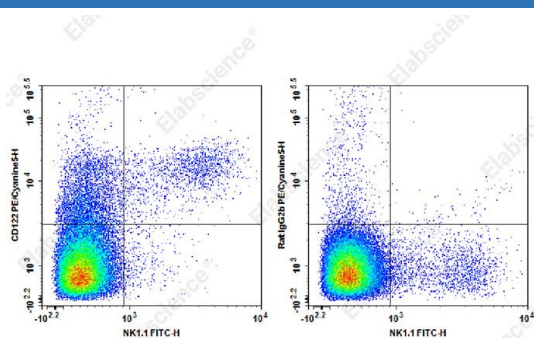
### Applications

### Recommended usage

#### FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in  $100 \mu\text{L}$  volume or  $100 \mu\text{L}$  of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

### Data



Staining of C57BL/6 murine splenocytes cells with FITC Anti-Mouse NK1.1 Antibody and PE/Cyanine5 Anti-Mouse CD122 Antibody[TM-Beta 1] (left) or PE/Cyanine5 Rat IgG2b,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

### Preparation & Storage

|                 |                                                                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Keep as concentrated solution.<br>This product can be stored at $2-8^{\circ}\text{C}$ 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> | IL-2 Receptor $\beta$ chain;IL-2R $\beta$ |
| <b>Uniprot ID</b>      | P16297                                    |
| <b>Gene ID</b>         | 16185                                     |

### For Research Use Only

## Background

CD122 is a 70-75 kD IL-2 receptor  $\beta$  chain also known as IL-2R $\beta$ , which is also shared by the IL-15 receptor. It is constitutively expressed by NK cells and at lower levels by T cells, B cells, monocytes, and macrophages. The IL-2R $\beta$  chain can combine with either the common  $\gamma$  subunit ( $\gamma_c$ , CD132) alone or with the  $\gamma_c$  subunit and the IL-2R $\alpha$  subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation. The TM- $\beta$ 1 antibody does inhibit IL-2 binding to the IL-2 receptor. CD122 is expressed on murine, but not human, CD8+ Tregs involved in the maintenance of T cell homeostasis.