

## Purified Anti-Mouse CD122/IL-2RB Antibody[5H4]

**Catalog Number:** GF1029A

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

### Description

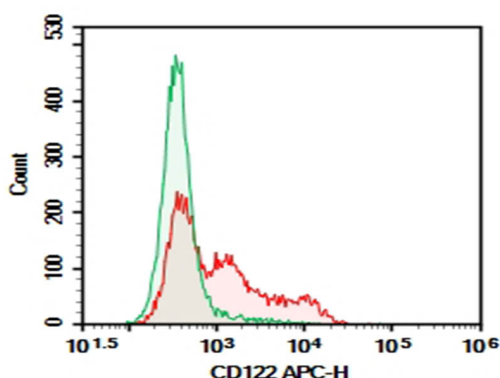
<b>Reactivity</b>	Mouse
<b>Immunogen</b>	Recombinant Mouse CD122 protein
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2a, $\kappa$
<b>Clone</b>	5H4
<b>Purification</b>	>98%, Protein A/G purified
<b>Conjugation</b>	Unconjugated
<b>Buffer</b>	PBS, pH 7.2. Contains 0.05% proclin 300.

### Applications

### Recommended Dilution

<b>FCM</b>	2 $\mu\text{g/mL}$ ( $0.5 \times 10^6$ - $1 \times 10^6$ cells)
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### Data



Human peripheral blood lymphocytes were stained with 0.2  $\mu\text{g}$  Purified Anti-Mouse CD122 Antibody[5H4] (Right) and 0.2  $\mu\text{g}$  Rat IgG2a,  $\kappa$  Isotype Control (Left), followed by APC-conjugated Goat Anti-Rat IgG Secondary Antibody.

### Preparation & Storage

<b>Storage</b>	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### 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 ( $\gamma\text{c}$ , CD132) alone or with the  $\gamma\text{c}$  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 5H4 antibody does not block IL-2 binding to the IL-2 receptor. CD122 is expressed on murine, but not human, CD8<sup>+</sup> Tregs involved in the maintenance of T cell homeostasis.