

**PE/Cy5 anti-mouse CD122 (IL-2R $\beta$ )**

**Catalog # / Size:** 1216095 / 25  $\mu$ g  
1216100 / 100  $\mu$ g

**Clone:** TM- $\beta$ 1

**Isotype:** Rat IgG2b,  $\kappa$

**Reactivity:** Mouse

**Concentration:** 0.2

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 0.25$  microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, blocking of IL-2 binding<sup>1</sup>, and NK cell depletion<sup>2</sup> *in vivo*. The LEAF™ purified antibody (Endotoxin <0.1 EU/microg, Azide-Free, 0.2  $\mu$ m filtered) is recommended for blocking of IL-2 binding *in vivo* and *in vitro* (Cat. No. 123204).

---

**Description:** 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.