

APC/Cy7 anti-mouse CD122 (IL-2R β)

Catalog # / Size: 1216105 / 25 μ g
1216110 / 100 μ g

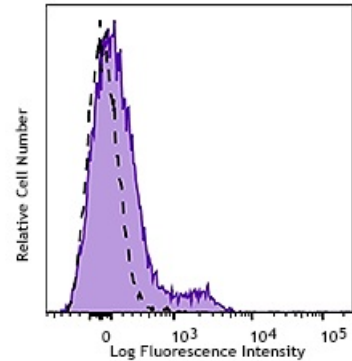
Clone: TM- β 1

Isotype: Rat IgG2b, κ

Immunogen: Rat T cell line expressing mouse CD122 (IL-2R β)

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.



Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

C57BL/6 mouse splenocytes were stained with CD122 (IL-2R β , clone TM- β 1) APC/Cy7 (filled histogram) or Rat IgG2b, κ APC/Cy7 isotype control (open histogram).

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 ≤ 1.0 μ g per million cells in 100 μ l 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: immunoprecipitation¹, blocking of IL-2 binding¹, and NK cell depletion² *in vivo*.

- Application References:**
1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
 2. Minami Y, *et al.* 1993. *Annu. Rev. Immunol.* 11:245.
 3. Suzuki H, *et al.* 1995. *Science* 268:1472.
 4. Shi Z, *et al.* 2009. *Eur. J. Immunol.* 39:2109.

Description: CD122 is a 70-75 kD IL-2 receptor β chain also known as IL-2R β , 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 β chain can combine with either the common γ subunit (γ_c , CD132) alone or with the γ_c subunit and the IL-2R α subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation. The TM- β 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.

- Antigen References:**
1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
 2. Minami Y, *et al.* 1993. *Annu. Rev. Immunol.* 11:245.
 3. Suzuki H, *et al.* 1995. *Science* 268:1472.
 4. Shi Z, *et al.* 2009. *Eur. J. Immunol.* 39:2109.