

# Product Data Sheet

## FITC anti-mouse CD122 (IL-2R $\beta$ )

**Catalog # / Size:** 123207 / 50  $\mu$ g  
123208 / 500  $\mu$ g

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

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

**Immunogen:** Rat T cell line expressing mouse CD122 (IL-2R $\beta$ )

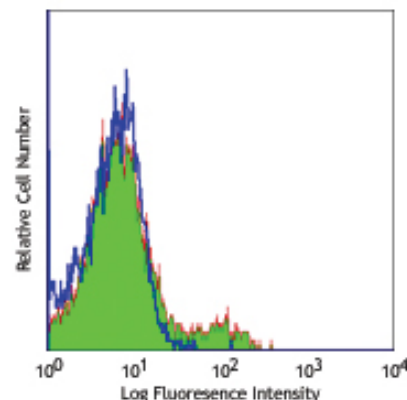
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

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

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 mouse splenocytes stained with TM- $\beta$ 1 FITC

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is  $\leq 0.25 \mu$ g per  $10^6$  cells in 100  $\mu$ 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: 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/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for blocking of IL-2 binding *in vivo* and *in vitro* (Cat. No. 123204).

**Application References:**

1. Tanaka T, *et al.* 1991. *J. Immunol.* 147:2222.
2. Tanaka T, *et al.* 1993. *J. Exp. Med.* 178:1103.
3. Tanaka T, *et al.* 1992. *Int. Immunol.* 4:487.

**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.

**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.

### Related Products:

**Product**  
 Cell Staining Buffer  
 FITC Rat IgG2b,  $\kappa$  Isotype Ctrl  
 TruStain fcX™ (anti-mouse CD16/32)

### Clone

RTK4530  
93

### Application

FC, ICC, ICFC  
 FC, ICFC  
 FC



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