

Biotin anti-mouse CD122 (IL-2R β)

Catalog # / Size: 123205 / 50 μ g
123206 / 500 μ g

Clone: TM- β 1

Isotype: Rat IgG2b, κ

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

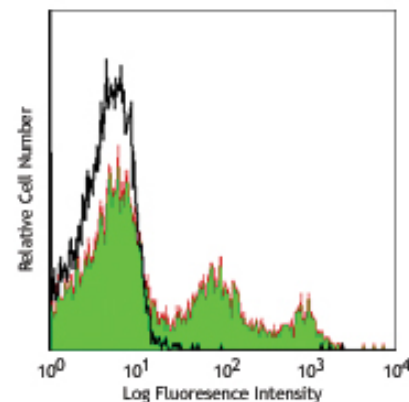
Reactivity: Mouse

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

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. **Do not freeze.**



C57BL/6 mouse splenocytes stained with biotinylated TM- β 1, followed by Sav-PE

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 $\leq 1.0 \mu$ g per 10^6 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*. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ 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.
4. Maine CJ, *et al.* 2012. *J Immunol.* 188:5267. PubMed.

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.

Related Products:	Product	Clone	Application
	APC Streptavidin		FC, ICFC
	APC/Cy7 Streptavidin		FC, ICFC
	PE Streptavidin		FC, ICFC
	PE/Cy5 Streptavidin		FC, ICFC
	PE/Cy7 Streptavidin		FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC
	RBC Lysis Buffer (10X)		FC, ICFC
	Biotin Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC



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