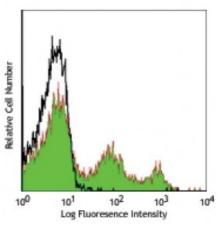
Product Data Sheet

Biotin anti-mouse CD122 (IL-2Rβ)

Catalog # / Size:	1216030 / 500 μg 1216025 / 50 μg
Clone:	ΤΜ-β1
Isotype:	Rat IgG2b, к
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



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

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 microg per 10^6 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: immunoprecipitation1, blocking of IL-2 binding1, and NK cell depletion2 <i>in vivo</i> . The LEAF [™] purified antibody (Endotoxin <0.1 EU/microg, Azide-Free, 0.2 µm filtered) is recommended for blocking of IL-2 binding <i>in vivo</i> and <i>in vitro</i> (Cat. No. 123204).
Application References:	1. Tanaka T, <i>et al.</i> 1991. <i>J. Immunol.</i> 147:2222. 2. Tanaka T, <i>et al.</i> 1993. <i>J. Exp. Med.</i> 178:1103. 3. Tanaka T, <i>et al.</i> 1992. <i>Int. Immunol.</i> 4:487. 4. Maine CJ, <i>et al.</i> 2012. <i>J Immunol.</i> 188:5267. <u>PubMed.</u>
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:	 Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. Minami Y, <i>et al.</i> 1993. <i>Annu. Rev. Immunol.</i> 11:245. Suzuki H, <i>et al.</i> 1995. <i>Science</i> 268:1472. Shi Z, <i>et</i>

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