



Rat Anti-Mouse CD122 (IL-2R β) Monoclonal antibody, clone TM-Beta 1 (CABT-L4526)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The TM-beta 1 monoclonal antibody reacts with mouse CD122 also known as the IL-2 receptor beta chain. CD122 is a 70-75 kDa subunit of the IL-2 receptor and the IL-15 receptor. CD122 is expressed on NK cells and at lower levels by T lymphocytes, B lymphocytes, monocytes, and macrophages. The IL-2R has been shown to play roles in lymphocyte differentiation, activation, and proliferation. In complex with IL-2R α , IL-2R binds IL-2 with relatively low affinity however, when CD122 combines with IL-2R α and the common gamma chain (CD132) the complex binds IL-2 with high affinity. The TM-beta 1 antibody is reported to inhibit binding of IL-2 to the IL-2R. Additionally, this antibody has been shown to deplete CD122 expressing NK cells with administered in vivo.

Target	Mouse CD122 (IL-2R β)
Immunogen	Mouse IL-2R β transfected cell line (TART-m β cells)
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	TM-Beta 1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo NK cell depletion, in vitro IL-2R blockade, FuncS, FC
Molecular Weight	150 kDa

Format	0.2 µm filtration liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 8.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB01
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	beta chain of receptor for interleukin 2 [RGD, Feb 2006]
Keywords	IL2RB;interleukin 2 receptor, beta;IL2RBC;interleukin-2 receptor subunit beta;IL-2RB;P70-75;IL-2R subunit beta;IL-2 receptor subunit beta;interleukin 2 receptor, beta chain;high affinity IL-2 receptor subunit beta;

GENE INFORMATION

Official Symbol	interleukin 2 receptor, beta
Synonyms	IL2RB; interleukin 2 receptor, beta; IL2RBC; interleukin-2 receptor subunit beta; IL-2RB; P70-75; IL-2R subunit beta; IL-2 receptor subunit beta; interleukin 2 receptor, beta chain; high affinity IL-2 receptor subunit beta;
References	Brauner, H., et al. (2016). "Depletion of IL-2 receptor beta-positive cells protects from diabetes in non-obese diabetic mice." <i>Immunol Cell Biol</i> 94(2): 177-184. PubMed;