



# Rat Anti-Mouse CD122 (IL-2R $\beta$ ) 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 $\alpha$ , IL-2R binds IL-2 with relatively low affinity however, when CD122 combines with IL-2R $\alpha$  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.

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

<b>Format</b>	0.2 µm filtration liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	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
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	beta chain of receptor for interleukin 2 [RGD, Feb 2006]
<b>Keywords</b>	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

<b>Official Symbol</b>	interleukin 2 receptor, beta
<b>Synonyms</b>	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;
<b>References</b>	Brauner, H., et al. (2016). "Depletion of IL-2 receptor beta-positive cells protects from diabetes in non-obese diabetic mice." Immunol Cell Biol 94(2): 177-184. PubMed;