



Rat Anti-Mouse CD122 (IL-2R β) Monoclonal antibody, clone 5H4 (CABT-L4509)

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

PRODUCT INFORMATION

Product Overview

The 5H4 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 5H4 antibody does not inhibit binding of IL-2 to the IL-2R.

Target	Mouse CD122 (IL-2R β)
Immunogen	Rat myeloma YB2/0 transfected with truncated mouse CD122 cDNA
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	5H4
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro NK cell negative selection, IP, FC
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. 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-LB04
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	van Helden, M. J., et al. (2015). "Terminal NK cell maturation is controlled by concerted actions of T-bet and Zeb2 and is essential for melanoma rejection." J Exp Med 212(12): 2015-2025. PubMed;