



Rat Anti-Mouse IL-2 Monoclonal antibody, clone S4B6-1 (CABT-L4375)

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

PRODUCT INFORMATION

Product Overview

The S4B6-1 monoclonal antibody reacts with mouse IL-2, a 17 kDa cytokine that is mainly produced by T cells in response to antigenic or mitogenic stimulation. IL-2 is required for T cell proliferation and other activities crucial to the regulation of immunity. The cytokine can also stimulate the growth and differentiation of B cells, monocytes/macrophages, and NK cells. Additionally, IL-2 prevents autoimmune diseases by promoting the differentiation of certain immature T cells into regulatory T cells. The S4B6-1 antibody has been shown to neutralize IL-2 in vivo.

Target	Mouse IL-2
Immunogen	Recombinant mouse IL-2
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	S4B6-1
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo IL-2 neutralization, in vivo IL-2 receptor stimulation (as a complex with IL-2)
Molecular Weight	150 kDa
Format	0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 6.5. 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-LB02
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	cytokine produced by T-cells in response to antigen or mitogen stimulation [RGD, Feb 2006]
Keywords	IL2;interleukin 2;interleukin-2;IL-2;TCGF;T-cell growth factor;

GENE INFORMATION

Official Symbol	interleukin 2
Synonyms	IL2; interleukin 2; interleukin-2; IL-2; TCGF; T-cell growth factor;
References	Baeyens, A., et al. (2015). "Effector T cells boost regulatory T cell expansion by IL-2, TNF, OX40, and plasmacytoid dendritic cells depending on the immune context." J Immunol 194(3): 999-1010. PubMed;Hamilton, S. E., et al. (2010). "IL-2 complex treatment can protect naive mice from bacterial and viral infection." J Immunol 185(11): 6584-6590. PubMed;