



# Rat Anti-Mouse IL-2 Monoclonal antibody, clone JES6-1A12 (CABT-L4332)

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

## PRODUCT INFORMATION

### Product Overview

The JES6-1A12 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 JES6-1A12 antibody has been shown to neutralize IL-2 in vivo .

<b>Target</b>	Mouse IL-2
<b>Immunogen</b>	Recombinant mouse IL-2
<b>Isotype</b>	IgG2a, κ
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	JES6-1A12
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vivo IL-2 neutralization, in vivo IL-2 receptor stimulation (as a complex with IL-2)
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 μM filtered 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 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
<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>	cytokine produced by T-cells in response to antigen or mitogen stimulation [RGD, Feb 2006]
<b>Keywords</b>	IL2;interleukin 2;interleukin-2;IL-2;TCGF;T-cell growth factor;

## GENE INFORMATION

<b>Official Symbol</b>	interleukin 2
<b>Synonyms</b>	IL2; interleukin 2; interleukin-2; IL-2; TCGF; T-cell growth factor;
<b>References</b>	Bouchery, T., et al. (2015). "ILC2s and T cells cooperate to ensure maintenance of M2 macrophages for lung immunity against hookworms." Nat Commun 6: 6970. PubMed;Le Saout, C., et al. (2010). "IL-2 mediates CD4+ T cell help in the breakdown of memory-like CD8+ T cell tolerance under lymphopenic conditions." PLoS One 5(9): e12659. PubMed;Molinero, L. L., et al. (2009). "CARMA1 controls an early checkpoint in the thymic development of FoxP3+ regulatory T cells." J Immunol 182(11): 6736-6743. PubMed;