



Rat Anti-Mouse IL-10 Monoclonal antibody, clone JES5-2A5 (CABT-L4378)

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

PRODUCT INFORMATION

Product Overview

The JES5-2A5 monoclonal antibody reacts with mouse IL-10. IL-10 is a 17-21 kDa cytokine which is primarily produced by monocytes and, to a lesser extent, Th2 cells, mast cells, T regulatory cells, and certain subsets of activated T and B cells. IL-10 has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II antigens, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggest that this cytokine is an essential immunoregulator in the intestinal tract. The JES5-2A5 antibody has been shown to neutralize the bioactivity of natural or recombinant IL-10.

Target	Mouse IL-10
Immunogen	Recombinant mouse IL-10
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	JES5-2A5
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo IL-10 neutralization, in vitro IL-10 neutralization
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 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	factor involved in the inhibition of cytokine synthesis [RGD, Feb 2006]
Keywords	IL10;interleukin 10;IL10X;interleukin-10;CSIF;IL-10;cytokine synthesis inhibitory factor;

GENE INFORMATION

Official Symbol	interleukin 10
Synonyms	IL10; interleukin 10; IL10X; interleukin-10; CSIF; IL-10; cytokine synthesis inhibitory factor;
References	Komai, T., et al. (2018). "Transforming Growth Factor-beta and Interleukin-10 Synergistically Regulate Humoral Immunity via Modulating Metabolic Signals." <i>Front Immunol</i> 9: 1364. PubMed;Pastille, E., et al. (2011). "Modulation of dendritic cell differentiation in the bone marrow mediates sustained immunosuppression after polymicrobial sepsis." <i>J Immunol</i> 186(2): 977-986. PubMed;Muenzer, J. T., et al. (2010). "Characterization and modulation of the immunosuppressive phase of sepsis." <i>Infect Immun</i> 78(4): 1582-1592. PubMed;Perone, M. J., et al. (2009). "Suppression of autoimmune diabetes by soluble galectin-1." <i>J Immunol</i> 182(5): 2641-2653. PubMed;