

# IL-2 Monoclonal Antibody (JES6-1A12), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-1A12
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469206

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	-	5 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	7 Publications
Immunostaining (IS)	0.250 µg/mL	-

## Product Specific Information

**Description:** The JES6-1A12 antibody reacts with mouse interleukin-2 (IL-2). The JES6-1A12 antibody is a neutralizing antibody. Mouse IL-2 (also known as TCGF) is a 17 kDa factor produced mainly by activated CD4+ T cells. IL-2 induces cell cycle progression of resting cells in an antigen non-specific manner and allows clonal expansion of activated T cells. IL-2 also acts on activated B cells, monocytes, NK cells, LAK cells, and on oligodendroglial cells in vitro. In addition, IL-2 plays a role in hematopoiesis, tumor surveillance and anti-inflammatory reactions, and hence is a central regulator of the immune response. Non-glycosylated IL-2 is biologically active.

**Applications Reported:** The JES6-1A12 antibody has been reported for use in ELISA capture, ELISPOT capture, neutralization of IL-2 bioactivity, and IP.

**Applications Tested:** The Functional Grade Purified JES6-1A12 antibody has been tested by LAL assay to verify low endotoxin levels, by ELISA, and in bioassay for neutralization of mouse IL-2 bioactivity.

The JES6-1A12 antibody at 0.250 µg/mL has been found to inhibit by 50% the biological effects of 1.0 ng/mL mouse IL-2 in a CTLL-2 cell proliferation assay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

The JES6-1A12 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse Interleukin-2 (IL-2) in combination with the biotin JES6-5H4 (13-7021) antibody for detection and recombinant mouse IL-2 (14-8021) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 500 pg/mL - 4 pg/mL should be included in each ELISA plate.

Storage and handling: Use in a sterile environment.

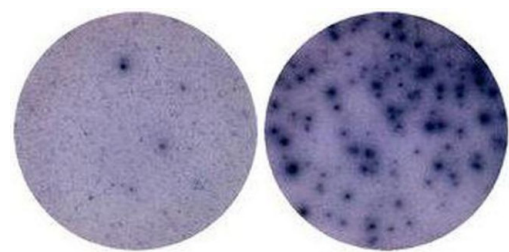
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

**Product Images For IL-2 Monoclonal Antibody (JES6-1A12), Functional Grade, eBioscience™**



**IL-2 Antibody (16-7022-81) in IS**  
Splenocytes from mice pre-immunized with PLP139-151 peptide were recall activated 4 weeks later with PLP139-151 for 24 hours in Mouse IL-2 ELISPOT assay. Control well is medium alone.

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Immunocytochemistry (1)

<p>PLoS pathogens</p> <p><b>The systemic immune state of super-shedder mice is characterized by a unique neutrophil-dependent blunting of TH1 responses.</b></p> <p>Authors: Gopinath S,Hotson A,Johns J,Nolan G,Monack D</p>	<p>Year 2014</p> <p>Species Mouse</p>
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Flow Cytometry (1)

<p>PloS one</p> <p><b>UCP3 reciprocally controls CD4+ Th17 and Treg cell differentiation.</b></p> <p>"16-7022 was used in Flow cytometry/Cell sorting to demonstrate that Ucp3 is expressed in peripheral naive CD4+ T cells at the mRNA level before being markedly downregulated following activation."</p> <p>Authors: O'Connor EB,Muñoz-Wolf N,Leon G,Lavelle EC,Mills KHG,Walsh PT,Porter RK</p>	<p>Year 2021</p> <p>Species Mouse</p>
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ELISA (5)

<p>Immune network</p> <p><b>Deletion Timing of <i>Cic</i> Alleles during Hematopoiesis Determines the Degree of Peripheral CD4<sup>+</sup> T Cell Activation and Proliferation.</b></p> <p>"Published figure using IL-2 monoclonal antibody (Product # 16-7022-81) in ELISA"</p> <p>Authors: Park GY, Lee GW, Kim S, Hong H, Park JS, Cho JH, Lee Y</p>	<p>Year 2020</p>
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<p>Nature communications</p> <p><b>Capicua deficiency induces autoimmunity and promotes follicular helper T cell differentiation via derepression of ETV5.</b></p> <p>"Published figure using IL-2 monoclonal antibody (Product # 16-7022-81) in ELISA"</p> <p>Authors: Park S, Lee S, Lee CG, Park GY, Hong H, Lee JS, Kim YM, Lee SB, Hwang D, Choi YS, Fryer JD, Im SH, Lee SW, Lee Y</p>	<p>Year 2017</p>
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More applications with references on thermofisher.com

- Neu (1)
- FN (7)

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