

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

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	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	Published
ELISA (ELISA)	✓	0.250 µg/mL	3 Publications
Functional Assay (FN)	✓	Assay-Dependent	5 Publications
Immunofluorescence (IF)	-		1 Publication
Neutralization (Neu)	✓	Assay-Dependent	1 Publication
Immunoprecipitation (IP)	✓	Assay-Dependent	

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.

Endotoxin: Less than 0.001 ng/ug antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

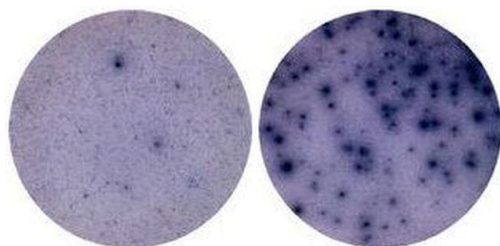
Filtration: 0.2 µm post-manufacturing filtered.

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 ELISA

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.

[View more figures on thermofisher.com](https://www.thermofisher.com)

10 References

ELISA (3)

Nature communications

Capicua deficiency induces autoimmunity and promotes follicular helper T cell differentiation via derepression of ETV5.

"Published figure using IL-2 monoclonal antibody (Product # 16-7022-81) in ELISA"

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

Species
Not Applicable

Dilution
Not Cited

Year
2017

Infection and immunity

Modulation of pulmonary dendritic cell function during mycobacterial infection.

"Published figure using IL-2 monoclonal antibody (Product # 16-7022-81) in ELISA"

Authors: Anis MM, Fulton SA, Reba SM, Liu Y, Harding CV, Boom WH

Species
Not Applicable

Dilution
Not Cited

Year
2008

[View more ELISA references on thermofisher.com](#)

Functional Assay (5)

Nature immunology

Thymic regulatory T cell niche size is dictated by limiting IL-2 from antigen-bearing dendritic cells and feedback competition.

"16-7022 was used in Functional assays to investigate the sources of thymic IL-2 that limit access to the Treg developmental niche, showing that niche size is dictated by limiting IL-2 from antigen-bearing dendritic cells and feedback competition."

Authors: Weist BM, Kurd N, Boussier J, Chan SW, Robey EA

Species
Mouse

Dilution
Not Cited

Year
2015

PLoS pathogens

The systemic immune state of super-shedder mice is characterized by a unique neutrophil-dependent blunting of TH1 responses.

"Published figure using IL-2 monoclonal antibody (Product # 16-7022-81) in Immunofluorescence"

Authors: Gopinath S, Hotson A, Johns J, Nolan G, Monack D

Species
Mouse

Dilution
Not Cited

Year
2014

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More applications with references on thermofisher.com

IF (1) **Neu (1)**

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