

IL-2 Monoclonal Antibody (JES6-5H4), Alexa Fluor 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-5H4
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469920

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	8 Publications
ELISA (ELISA)	-	3 Publications

Product Specific Information

Description: The JES6-5H4 antibody reacts with mouse interleukin-2 (IL-2), a 17 kDa T cell growth factor and a major immunoregulatory cytokine.

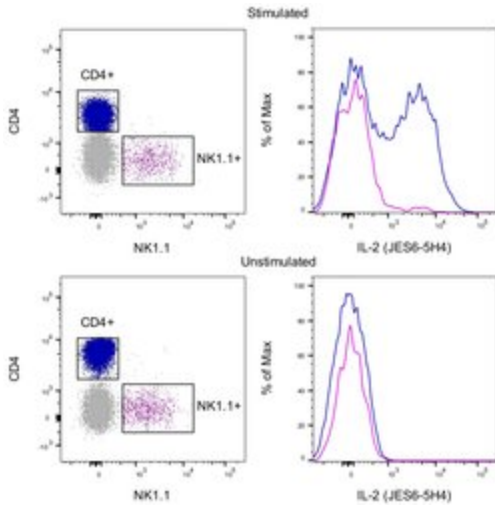
Applications Reported: The JES6-5H4 antibody has been reported useful for ELISA, ELISPOT, neutralization, and intracellular staining for flow cytometric analysis.

Applications Tested: The Alexa Fluor® 488 JES6-5H4 antibody has been tested by intracellular staining and flow cytometric analysis and can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

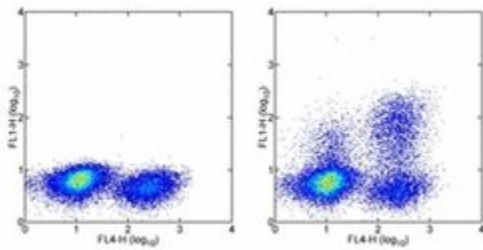
Advanced Verification Data



IL-2 Antibody (53-7021-82)

Intracellular staining of stimulated mouse splenocytes. As expected based on known expression patterns, IL-2 clone JES6-5H4 stains a large subset of CD4+ T cells and a minor subset of NK1.1+ NK cells with no staining observed without stimulation. Details: Mouse splenocytes were cultured in the presence of Protein Transport Inhibitors (500X) (Unstimulated, bottom row) or Cell Stimulation Cocktail (plus protein transport inhibitors, 500X) for 5 hours (Stimulated, top row). Cells were fixed and permeabilized with the IC Fixation and Permeabilization Buffer Set and protocol followed by intracellular staining with CD4 (clone RM4-5), NK1.1 (clone PK136) and IL-2 (clone JES6-5H4). Cells in the CD4+ (blue histogram) or NK1.1+ (purple histogram) gates were used for analysis. Cell treatment validation info.

Product Images For IL-2 Monoclonal Antibody (JES6-5H4), Alexa Fluor 488, eBioscience™



IL-2 Antibody (53-7021-82) in Flow

Intracellular staining of Mouse Cytokine Positive Control Cells (Product # 00-4500-51) with Anti-Mouse CD4 APC and buffer (left) or Anti-Mouse IL-2 Alexa Fluor® 488 (right).

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

11 References

Flow Cytometry (8)

Frontiers in immunology

A New Adjuvant MTOM Mediates *Mycobacterium tuberculosis* Subunit Vaccine to Enhance Th1-Type T Cell Immune Responses and IL-2⁺ T Cells.

"Published figure using IL-2 monoclonal antibody (Product # 53-7021-82) in Flow Cytometry"

Authors: Yu Q,Wang X,Fan X

Species

Not Applicable

Dilution

Not Cited

Year

2019

The Journal of clinical investigation

Excessive expression of miR-27 impairs Treg-mediated immunological tolerance.

"Published figure using IL-2 monoclonal antibody (Product # 53-7021-82) in Flow Cytometry"

Authors: Cruz LO,Hashemifar SS,Wu CJ,Cho S,Nguyen DT,Lin LL,Khan AA,Lu LF

Species

Not Applicable

Dilution

Not Cited

Year

2017

ELISA (3)

Infection and immunity

Modulation of naive CD4+ T-cell responses to an airway antigen during pulmonary mycobacterial infection.

"Published figure using IL-2 monoclonal antibody (Product # 53-7021-82) in ELISA"

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

Species

Not Applicable

Dilution

Not Cited

Year

2007

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 # 53-7021-82) 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

View more ELISA references on thermofisher.com

More applications with references on thermofisher.com

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