

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	10 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.

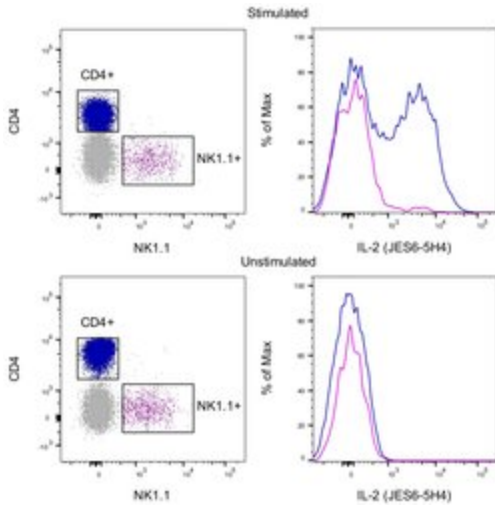
Applications Reported: The JES6-5H4 antibody has been reported useful for ELISA, ELISPOT, neutralization, and intracellular staining for flow cytometric analysis.

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.

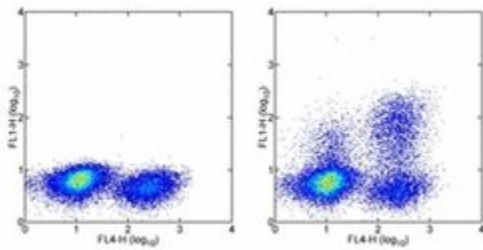
Advanced Verification Data



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 & 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)

13 References

Flow Cytometry (10)

Vaccines

Synthetic DNA Vaccines Adjuvanted with pIL-33 Drive Liver-Localized T Cells and Provide Protection from *Plasmodium* Challenge in a Mouse Model.

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

Authors: Reeder SM, Reuschel EL, Bah MA, Yun K, Tursi NJ, Kim KY, Chu J, Zaidi FI, Yilmaz I, Hart RJ, Perrin B, Xu Z, Humeau L, Weiner DB, Aly ASI

Species

Not Applicable

Dilution

Not Cited

Year

2020

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

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

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 # 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

Infection and immunity

Modulation of pulmonary dendritic cell function during mycobacterial infection.

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

More applications with references on thermofisher.com

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