

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
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
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	19 Publications
ELISA (ELISA)	-	4 Publications

Product Specific Information

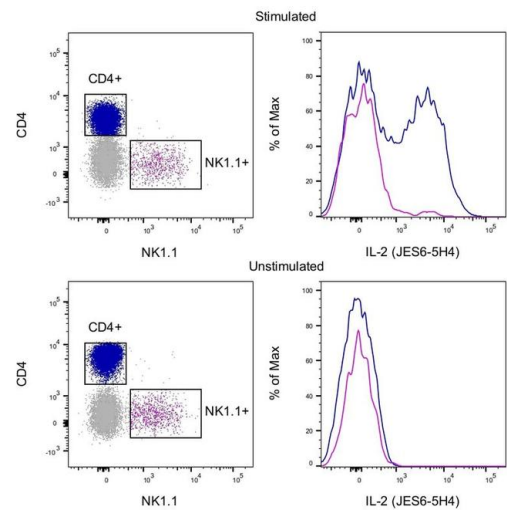
Description: The JES6-5H4 antibody reacts with mouse interleukin-2 (IL-2), a 17 kDa T cell growth factor and a major immunoregulatory cytokine.

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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

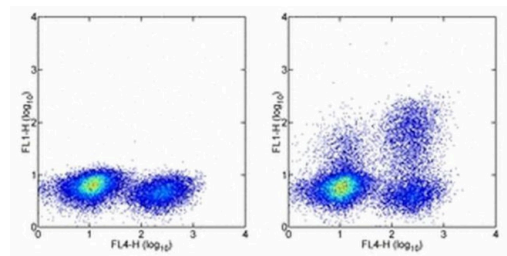
Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.



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. {TM}



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](#)

Flow Cytometry (19)

JCI insight

Impaired Treg-DC interactions contribute to autoimmunity in leukocyte adhesion deficiency type 1.

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

Authors: Klaus T,Wilson AS,Vicari E,Hadaschik E,Klein M,Helbich SSC,Kamenjarin N,Hodapp K,Schunke J,Haist M,Butsch F,Probst HC,Enk AH,Mahnke K,Waisman A,Bednarczyk M,Bros M,Bopp T,Grabbe S

Year
2022

Cell & bioscience

In vivo genome-wide CRISPR screening identifies ZNF24 as a negative NF-B modulator in lung cancer.

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

Authors: Liu L,Lei Y,Chen W,Zhou Q,Zheng Z,Zeng G,Liu W,Feng P,Zhang Z,Yu L,Chen L

Year
2022

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

ELISA (4)

Immune network

Deletion Timing of *Cic* Alleles during Hematopoiesis Determines the Degree of Peripheral CD4⁺ T Cell Activation and Proliferation.

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

Authors: Park GY,Lee GW,Kim S,Hong H,Park JS,Cho JH,Lee Y

Year
2020

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

Year
2017

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

More applications with references on thermofisher.com

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