

IL-2 Monoclonal Antibody (JES6-5H4), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-5H4
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	0.2 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_1944462

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	23 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: This JES6-5H4 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

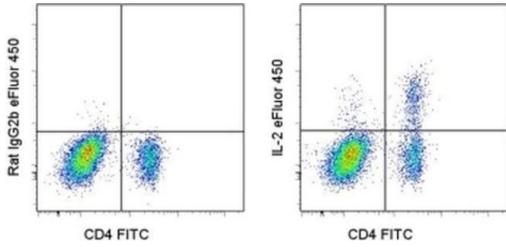
Applications Tested: This JES6-5H4 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

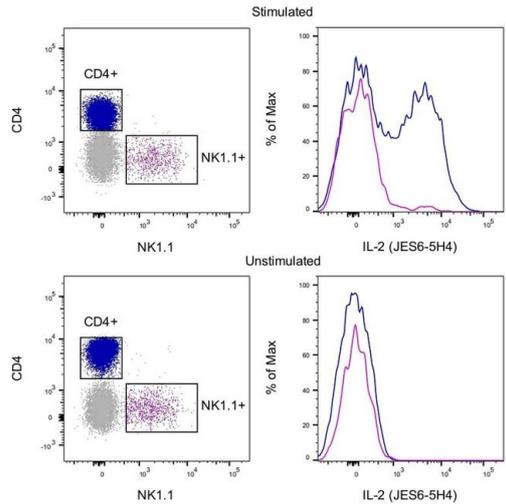
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-2 Monoclonal Antibody (JES6-5H4), eFluor™ 450, eBioscience™



IL-2 Antibody (48-7021-82) in Flow

Intracellular staining of PMA/ionomycin stimulated mouse splenocytes with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.25 µg of Rat IgG2b K Isotype Control eFluor® 450 (Product # 48-4031-82) (left) or 0.25 µg of Anti-Mouse IL-2 eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.



IL-2 Antibody (48-7021-82)

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}

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Flow Cytometry (23)

JCI insight

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

"Published figure using IL-2 monoclonal antibody (Product # 48-7021-82) 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 # 48-7021-82) 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 # 48-7021-82) 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 # 48-7021-82) 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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