

# IL-2 Monoclonal Antibody (JES6-5H4), PE, eBioscience™

## Product Details

Size	25 Tests
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-5H4
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11042257

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	37 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	1 Publication

## Product Specific Information

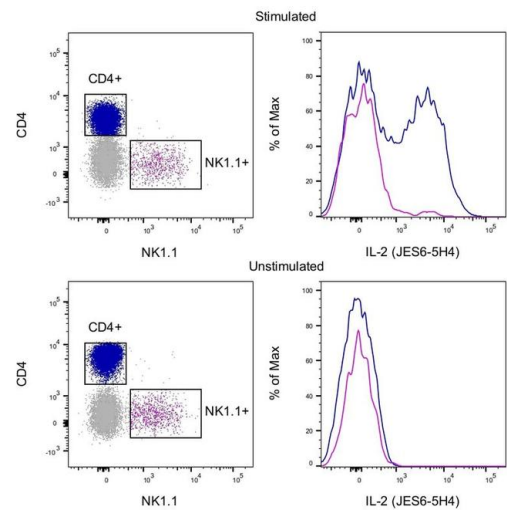
**Description:** The JES6-5H4 antibody reacts with mouse interleukin-2 (IL-2), a 17 kDa T cell growth factor and a major immunoregulatory cytokine.

**Applications Reported:** JES6-5H4 has been reported for use in intracellular flow cytometric analysis.

**Applications Tested:** This JES6-5H4 antibody has been pre-titrated and tested ny intracellular staining of 6-hour PMA and Ionomycin-activated mouse splenocytes. This can be used at 5 µL (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<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**IL-2 Antibody (12-7021-41)**

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 (37)

JCI insight	Year 2022
<b>Impaired Treg-DC interactions contribute to autoimmunity in leukocyte adhesion deficiency type 1.</b>	
"Published figure using IL-2 monoclonal antibody (Product # 12-7021-41) 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	
Cell & bioscience	Year 2022
<b>In vivo genome-wide CRISPR screening identifies ZNF24 as a negative NF-B modulator in lung cancer.</b>	
"Published figure using IL-2 monoclonal antibody (Product # 12-7021-41) 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	

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

ELISA (1)

PloS one	Year 2011
<b>IL-1 promotes TGF-1 and IL-2 dependent Foxp3 expression in regulatory T cells.</b>	Species Mouse
"12-7021 was used in an ELISA assay to investigate the differential effects of IL-12 and IL-1 on Foxp3 expression in T cells, showing that IL-1 promotes TGF-1- and IL-2-dependent Foxp3 expression in Tregs."	
Authors: Ganesh BB,Bhattacharya P,Gopisetty A,Sheng J,Vasu C,Prabhakar BS	

Functional Assay (1)

Journal of immunology (Baltimore, Md. : 1950)	Year 2009
<b>Epigenetic regulation of Foxp3 expression in regulatory T cells by DNA methylation.</b>	Species Mouse
"12-7021 was used in Functional assays to investigate Foxp3 as the master switch for Tregs, showing that expression is regulated by DNA methylation in Tregs."	
Authors: Lal G,Zhang N,van der Touw W,Ding Y,Ju W,Bottinger EP,Reid SP,Levy DE,Bromberg JS	

More applications with references on thermofisher.com

ISH (1)

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