

IL-2 Monoclonal Antibody (JES6-5H4), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-5H4
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_1235004

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	29 Publications
ELISA (ELISA)	-	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: 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 1 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.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

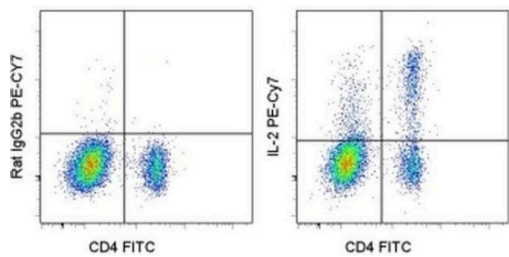
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone

specific performance should be determined empirically.

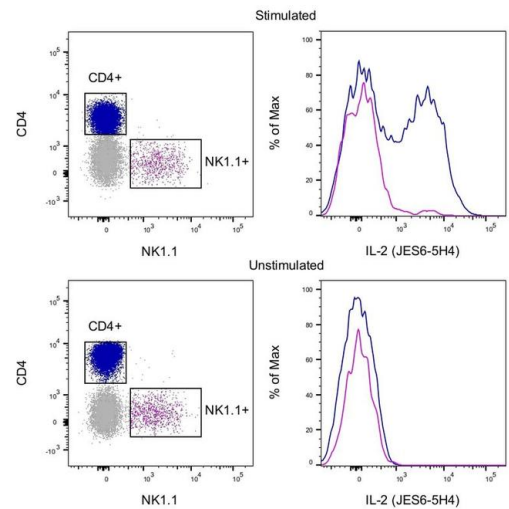
Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-2 Monoclonal Antibody (JES6-5H4), PE-Cyanine7, eBioscience™



IL-2 Antibody (25-7021-82) in Flow
Surface staining of mouse splenocytes stimulated with PMA/Ionomycin in the presence of Monensin with Anti-Mouse CD4 FITC (Product # 11-0042-82), followed by intracellular staining with 1.0 µg of Rat IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4031-82) (left) or 1.0 µg of Anti-Mouse IL-2 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.



IL-2 Antibody (25-7021-82)
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 (29)

JCI insight

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

"25-7021-82 was used in Flow cytometry/Cell sorting to demonstrate a crucial role of LFA-1 on Treg to maintain immune homeostasis by modifying T cell-DC interactions and CD4+ T cell activation."

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

Species
Mouse

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 # 25-7021-82) in Flow Cytometry"

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

Year
2022

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

ELISA (1)

Scientific reports

Epstein-Barr virus latent membrane protein 2A exacerbates experimental autoimmune encephalomyelitis and enhances antigen presentation function.

"25-7021 was used in an ELISpot assay to investigate the Epstein-Barr virus as a possible etiological agent involved in multiple sclerosis."

Authors: Chang RA,Miller SD,Longnecker R

Year
2013

Species
Mouse

More applications with references on thermofisher.cn

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