

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 |
| Form | Liquid |
| Concentration | 0.2 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_1235004 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 1 µg/test | 14 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

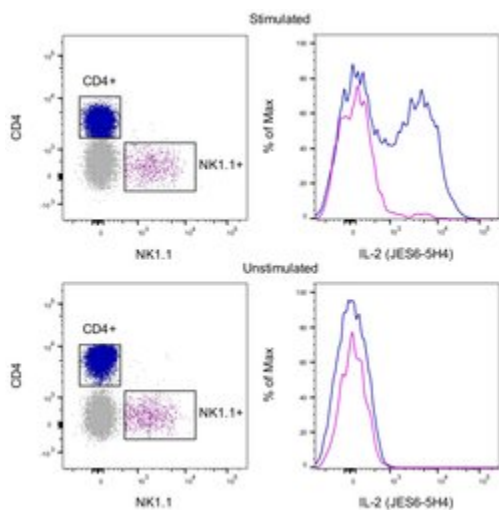
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) 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.

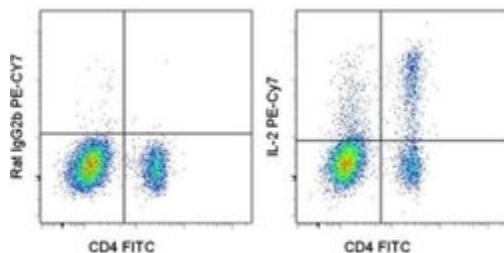
Advanced Verification Data



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. Cell treatment validation info.

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.

View more figures on thermofisher.com

15 References

Flow Cytometry (14)

Human vaccines & immunotherapeutics

Immunogenicity and protective efficacy of DMT liposome-adjuvanted tuberculosis subunit CTT3H vaccine.

"Published figure using IL-2 monoclonal antibody (Product # 25-7021-82) in Flow Cytometry"

Authors: Teng X, Tian M, Li J, Tan S, Yuan X, Yu Q, Jing Y, Zhang Z, Yue T, Zhou L, Fan X

Species
Not Applicable

Dilution
Not Cited

Year
2016

PLoS neglected tropical diseases

Protective immunity by an engineered DNA vaccine for Mayaro virus.

"25-7021 was used in Flow cytometry/Cell sorting to develop and test a novel DNA vaccine for Mayaro virus which encodes a synthetically designed consensus Mayaro envelope sequence."

Authors: Choi H, Kudchodkar SB, Reuschel EL, Asija K, Borole P, Ho M, Wojtak K, Reed C, Ramos S, Bopp NE, Aguilar PV, Weaver SC, Kim JJ, Humeau L, Tebas P, Weiner DB, Muthumani K

Species
Mouse

Dilution
Not Cited

Year
2019

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

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

Species
Mouse

Dilution
Not Cited

Year
2013

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.