

# IL-2 Monoclonal Antibody (JES6-5H4), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-5H4
Conjugate	PE
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_466150

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	32 Publications
Functional Assay (FN)	-	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.

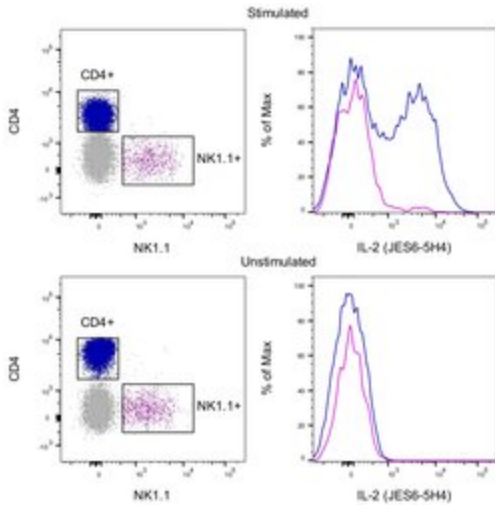
Applications Reported: JES6-5H4 has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This JES6-5H4 antibody is offered in 2 formats: - µg size: has been tested by intracellular staining of 6-hour PMA and Ionomycin-activated 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by 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.

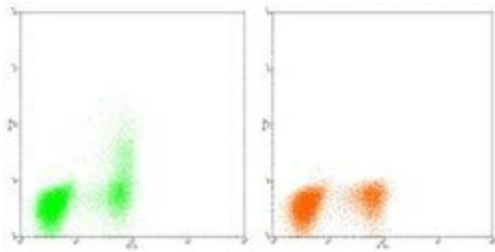
## Advanced Verification Data



### IL-2 Antibody (12-7021-82)

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 and 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, eBioscience™



### IL-2 Antibody (12-7021-82) in Flow

Left: Intracellular staining of 6-hour PMA and Ionomycin-activated mouse splenocytes with Anti-Mouse IL-2 PE and surface staining of Anti-Mouse CD3e FITC (Product # 11-0031-82). Right: Anti-Mouse IL-2 PE staining blocked with Anti-Mouse IL-2 Purified.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 33 References

### Flow Cytometry (32)

EBioMedicine

#### A Multistage Subunit Vaccine Effectively Protects Mice Against Primary Progressive Tuberculosis, Latency and Reactivation.

"Published figure using IL-2 monoclonal antibody (Product # 12-7021-82) in Flow Cytometry"

Authors: Ma J, Teng X, Wang X, Fan X, Wu Y, Tian M, Zhou Z, Li L

**Species**

Human  
Not Applicable

**Dilution**

Not Cited  
Not Cited

**Year**

2017

International immunology

## Role of Valpha14+ NKT cells in the development of Hepatitis B virus-specific CTL: activation of Valpha14+ NKT cells promotes the breakage of CTL tolerance.

"12-7021 was used in Flow cytometry/Cell sorting to open up a new method for clearing the virus from patients with persistent HBV infection."

Authors: Ito H,Ando K,Ishikawa T,Nakayama T,Taniguchi M,Saito K,Imawari M,Moriwaki H,Yokochi T,Kakumu S, Seishima M

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2008

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

## Functional Assay (1)

Journal of immunology (Baltimore, Md. : 1950)

## Epigenetic regulation of Foxp3 expression in regulatory T cells by DNA methylation.

"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

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2009

## More applications with references on thermofisher.com

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