

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

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	JES6-5H4
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_657802

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	Assay-Dependent	8 Publications
ELISA (ELISA)	✓	0.5-2 µg/mL	3 Publications
In vitro Assay (IV)	-		1 Publication
Functional Assay (FN)	✓	Assay-Dependent	

## 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: The functional grade purified JES6-5H4 has been reported for use in blocking of fluorochrome conjugated JES6-5H4 in intracellular flow cytometry experiments to serve as specificity control. JES6-5H4 is reported for detection of mouse IL-2 by ELISA, immunoprecipitation, and for neutralizing IL-2 binding and biological activity.

Applications Tested: The JES6-5H4 antibody has been tested by sandwich ELISA for detection of mouse IL-2 in combination with JES6-1A12 and can be used between 0.5-2 µg/mL.

Endotoxin: Less than 0.001 ng/ug antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

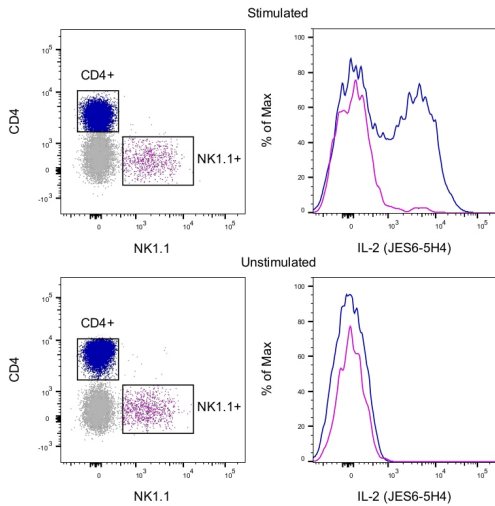
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

## Advanced Verification Data



### IL-2 Antibody (16-7021-85)

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.

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

## 12 References

### Flow Cytometry (8)

Frontiers in immunology

#### A New Adjuvant MTOM Mediates *Mycobacterium tuberculosis* Subunit Vaccine to Enhance Th1-Type T Cell Immune Responses and IL-2<sup>+</sup> T Cells.

"Published figure using IL-2 monoclonal antibody (Product # 16-7021-85) in Flow Cytometry"

Authors: Yu Q,Wang X,Fan X

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Nature communications

#### Tristetraprolin inhibits macrophage IL-27-induced activation of antitumour cytotoxic T cell responses.

"Published figure using IL-2 monoclonal antibody (Product # 16-7021-85) in Flow Cytometry"

Authors: Wang Q,Ning H,Peng H,Wei L,Hou R,Hoft DF,Liu J

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

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

### ELISA (3)

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 # 16-7021-85) 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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

Infection and immunity

#### Modulation of pulmonary dendritic cell function during mycobacterial infection.

"Published figure using IL-2 monoclonal antibody (Product # 16-7021-85) in ELISA"

Authors: Anis MM, Fulton SA, Reba SM, Liu Y, Harding CV, Boom WH

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2008

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

### More applications with references on thermofisher.com

### IV (1)

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