

# IL-10 Monoclonal Antibody (JES5-16E3), Biotin, Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	JES5-16E3
Conjugate	Biotin , Functional Grade
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_469762

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	-		10 Publications
ELISA (ELISA)	-		1 Publication
Functional Assay (FN)	✓	Assay-Dependent	

## Product Specific Information

Description: The JES5-16E3 antibody reacts with mouse interleukin-10 (IL-10). Mouse IL-10 is an ~18 kDa factor also known as Cytokine Synthesis Inhibitory Factor (CSIF). In the mouse, Th2 cells, B1 cells, macrophages, and keratinocytes are the major cell subsets that produce IL-10. IL-10 inhibits synthesis of Th1 cytokines and proliferation of T cells, and acts as a costimulatory signal for mast cells, developing thymocytes and the Th2 response.

Applications Reported: The Functional Grade Biotin anti-mouse IL-10 antibody (clone JES5-16E3) has been reported for use as the in vivo capture antibody for the In Vivo Cytokine Capture Assay (IVCCA). The IVCCA facilitates measurement of cytokines in serum by increasing their in vivo half lives dramatically. This increases the sensitivity of measurement of in vivo cytokine production 30- to 1000- fold.

For detailed methodology in this application, please refer to Finkelman, F., S. Morris, T. Orekhova, and D. Sehly. 2003. The In Vivo Cytokine Capture Assay for measurement of cytokine production in the mouse. In Current Protocols in Immunology. Unit 6.28. J. Coligan, A. Kruisbeek, D. Margulies, E. Shevach, and W. Strober, eds. John Wiley and Sons, New York.

Applications Tested: The Functional Grade Biotin JES5-16E3 antibody has been tested by LAL assay to ensure it is free of endotoxin, and has been tested as the detection antibody in a sandwich ELISA for analysis of mouse IL-10 in combination with the purified JES5-2A5 (14-7102) antibody for capture and recombinant mouse IL-10 (14-8101) as the standard. A suitable range of

concentrations of the FG Biotin JES5-16E3 antibody for ELISA detection is 0.5-2 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 4000 pg/mL - 30 pg/mL should be included in each ELISA plate..

Endotoxin: Less than 0.05 ng/ug cytokine as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

## 11 References

### Flow Cytometry (10)

The Journal of clinical investigation

#### Excessive expression of miR-27 impairs Treg-mediated immunological tolerance.

"Published figure using IL-10 monoclonal antibody (Product # 36-7101-85) in Flow Cytometry"

Authors: Cruz LO,Hashemifar SS,Wu CJ,Cho S,Nguyen DT,Lin LL,Khan AA,Lu LF

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

PloS one

#### Heterologous Immunity between Adenoviruses and Hepatitis C Virus: A New Paradigm in HCV Immunity and Vaccines.

"Published figure using IL-10 monoclonal antibody (Product # 36-7101-85) in Flow Cytometry"

Authors: Singh S,Vedi S,Samrat SK,Li W,Kumar R,Agrawal B

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

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

### ELISA (1)

International journal of molecular medicine

#### Mouse bone marrow-derived mesenchymal stem cells inhibit leukemia /lymphoma cell proliferation in vitro and in a mouse model of allogeneic bone marrow transplant.

"Published figure using IL-10 monoclonal antibody (Product # 36-7101-85) in ELISA"

Authors: Song N,Gao L,Qiu H,Huang C,Cheng H,Zhou H,Lv S,Chen L,Wang J

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2015

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