

# Product Data Sheet

## FITC anti-mouse IL-10

**Catalog # / Size:** 505005 / 25 µg  
505006 / 100 µg

**Clone:** JES5-16E3

**Isotype:** Rat IgG2b, κ

**Immunogen:** *E. coli*-expressed, recombinant mouse IL-10

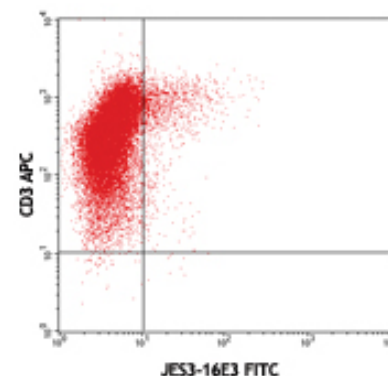
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



PMA-restimulated Th2-polarized C57BL/6 mouse splenocytes surface stained with CD3 APC, then intracellularly stained with JES5-16E3 FITC (top) or rat IgG2b, κ FITC isotype control (bottom).

## Applications:

**Applications:** ICFC - Quality tested

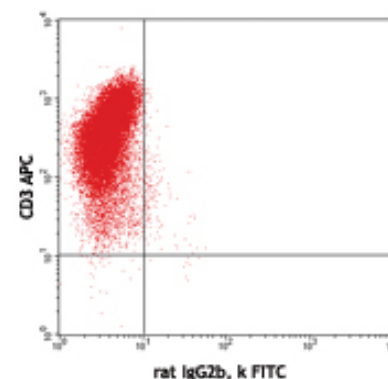
**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** **ELISA or ELISPOT Detection<sup>1,9,11</sup>:** The biotinylated JES5-16E3 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified JES5-2A5 antibody (Cat. No. 504902/504904) as the capture antibody.

**Neutralization<sup>14</sup>:** The LEAF™ Purified JES5-16E3 antibody can neutralize the bioactivity of natural or recombinant IL-10.

**Application References:**

1. Simkin G, *et al.* 2000. *J. Immunol.* 164:2457.
2. Kitagaki K, *et al.* 2002. *Clin. Diagn. Lab Immunol.* 9:1260.
3. Khanna A, *et al.* 2000. *J. Immunol.* 164:1346.
4. Sander B, *et al.* 1993. *J. Immunol. Methods* 166:201.
5. Litton M, *et al.* 1994. *J. Immunol. Methods* 175:47.
6. Andersson U, *et al.* 1999. *Detection and quantification of gene expression.* New York:Springer-Verlag.
7. Finkelman F, *et al.* 2003. *Curr. Prot. Immunol.* John Wiley & Sons New York. Unit 6.28.
8. Wang W, *et al.* 2004. *FASEB J.* 18:1043.
9. Brummel R and Lenert P. 2005. *J. Immunol.* 174:2429.
10. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366.
11. Xu G, *et al.* 2007. *J. Immunol.* 179:5358. PubMed
12. Brummel R, *et al.* 2005. *J. Immunol.* 174:2429. PubMed
13. Kang YJ, *et al.* 2007. *Stem Cells* 25:1814. PubMed
14. Seo N, *et al.* 2001. *Immunology.* 103:449. (Neut)



**Description:** IL-10 was originally described as Cytokine Synthesis Inhibitory Factor (CSIF) by virtue of its ability to inhibit cytokine production by Th1 clones. IL-10 shares over 80% sequence homology with the Epstein-Barr virus protein BCRF1. IL-10 inhibits IFN-γ, TNF-β, and IL-2 production by Th1 clones; inhibits macrophage-mediated IL-1, IL-6, and TNF-α synthesis; suppresses the delayed type hypersensitivity response; stimulates Th2 cell response (which results in elevated antibody production); and promotes mast cell proliferation in combination with IL-4.

**Antigen References:**

1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook.* Academic Press San Diego.
2. de Waal-Malefy R, *et al.* 1992. *Curr. Opin. Immunol.* 4:314.
3. Howard M, *et al.* 1992. *Immunol. Today* 13:198.
4. Quesniaux V. 1992. *Res. Immunol.* 143:385.
5. Norton SK, *et al.* 2008. *J. Immunol.* 180:2848.

**Related Products:** Product  
Cell Staining Buffer  
Fixation Buffer

**Clone**

**Application**  
FC, ICC, ICFC  
ICC, ICFC



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Permeabilization Wash Buffer (10X)  
Brefeldin A Solution (1,000X)  
Monensin Solution (1,000X)  
RBC Lysis Buffer (10X)  
FITC Rat IgG2b,  $\kappa$  Isotype Ctrl

RTK4530

ICC, ICFC, IHC  
ICFC  
ICFC  
FC, ICFC  
FC, ICFC



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