

Product Data Sheet

APC anti-mouse IL-10

Catalog # / Size: 505009 / 25 µg
505010 / 100 µg

Clone: JES5-16E3

Isotype: Rat IgG2b, κ

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

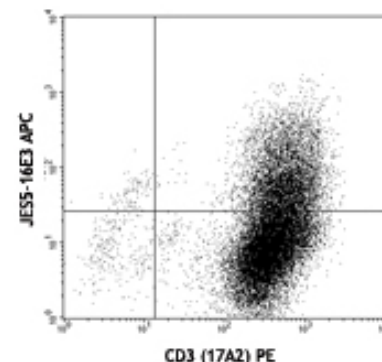
Reactivity: Mouse

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

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

Concentration: 0.2 mg/ml

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



PMA/ionomycin-stimulated Th2-polarized Balb/c mouse splenocytes were intracellularly stained with JES5-16E3 APC and CD3 (17A2) PE

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 ≤ 0.25 µg per 10⁶ 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^{1,9,11}:** 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.

Neutralization¹⁴: 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.

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Product
 Cell Staining Buffer
 Fixation Buffer
 Permeabilization Wash Buffer (10X)
 Brefeldin A Solution (1,000X)
 Monensin Solution (1,000X)
 RBC Lysis Buffer (10X)

Clone

Application

FC, ICC, ICFC
 ICC, ICFC
 ICC, ICFC, IHC
 ICFC
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APC Rat IgG2b, κ Isotype Ctrl

RTK4530

FC, ICFC



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