

# Product Data Sheet

## PE anti-human IL-10

**Catalog # / Size:** 501403 / 25 tests  
501404 / 100 tests

**Clone:** JES3-9D7

**Isotype:** Rat IgG1,  $\kappa$

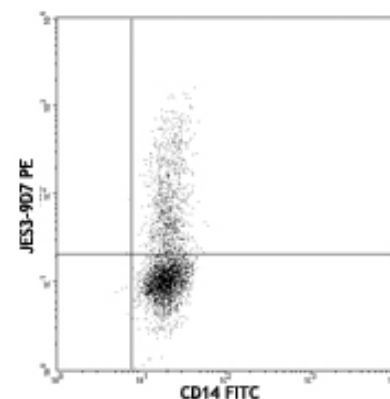
**Immunogen:** COS - expressed, recombinant human IL-10

**Reactivity:** Human, **Cross-Reactivity:** Baboon, Rhesus, Cynomolgus

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

**Formulation:**  $\mu$ g format: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
Test format: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide, 0.2% (w/v) BSA (USA origin).

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



LPS-stimulated (20 hours) human monocytes were surface stained with CD14 FITC and then intracellular stained with JES3-9D7 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. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** **ELISA Capture<sup>1-5</sup> or ELISPOT Capture<sup>6</sup>:** The purified JES3-9D7 antibody is useful as the capture antibody in a sandwich ELISA, when used in conjunction with the biotinylated JES3-12G8 antibody (Cat. No. 501502) as the detecting antibody and recombinant human IL-10 (Cat. No. 561201) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture.

**Neutralization<sup>1-3,9</sup>:** The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for neutralization of human IL-10 bioactivity (Cat. No. 501407). The JES3-9D7 antibody can neutralize the bioactivity of natural or recombinant IL-10.

**Additional reported applications (for the relevant formats) include:** immunohistochemical staining<sup>12</sup>

**Note:** For testing human IL-10 in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 430601 to 430606) are specially developed and recommended.

- Application References:**
1. Abrams J, et al. 1992. *Immunol. Rev.* 127:5. (ELISA Capture, Neut)
  2. Gotlieb W, et al. 1992. *Cytokine* 4:385. (ELISA Capture, Neut)
  3. Yssel H, et al. 1992. *J. Immunol.* 149:2378. (ELISA Capture, Neut)
  4. Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.20. (ELISA Capture)
  5. Burdin N, et al. 1993. *J. Exp. Med.* 177:295. (ELISA Capture)
  6. Klinman D, et al. 1994. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.19. (ELISPOT Capture)
  7. Schaeferli P, et al. 2000. *J. Exp. Med.* 192:1553.
  8. Jason J, et al. 1999. *Clin. Diagn. Lab Immunol.* 6:73.
  9. Akdis CA, et al. 1998. *J. Clin. Invest.* 102:98. (Neut)
  10. Stary G, et al. 2011. *J. Immunol.* 186:103. PubMed
  11. Mason GM, et al. 2012. *PNAS*. PubMed.
  12. Smith DR, et al. 1994. *Am. J. Pathol.* 145:18. (IHC)

**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. The biological activities of IL-10 include inhibition of macrophage-mediated cytokine synthesis, suppression of the delayed type hypersensitivity response, and stimulation of the Th2 cell response, which results in elevated antibody production. The JES3-9D7 antibody reacts with human and viral interleukin-10 (IL-10).

- Antigen References:**
1. Fitzgerald K, et al. Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
  2. de Waal-Malefyt R, et al. 1992. *Curr. Opin. Immunol.* 4:314.
  3. Howard M, et al. 1992. *Immunol. Today*. 13:198.
  4. Quesniaux V. 1992. *Research Immunol.* 143:385.

**Related Products:** Product  
Cell Staining Buffer

**Clone**

**Application**  
FC, ICC, ICFC



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Fixation Buffer  
Permeabilization Wash Buffer (10X)  
RBC Lysis Buffer (10X)  
Brefeldin A Solution (1,000X)  
Monensin Solution (1,000X)  
PE Rat IgG1,  $\kappa$  Isotype Ctrl

RTK2071

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



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