

Product Data Sheet

PE/Cy7 anti-human IL-10

Catalog # / Size: 501419 / 25 tests
501420 / 100 tests

Clone: JES3-9D7

Isotype: Rat IgG1, κ

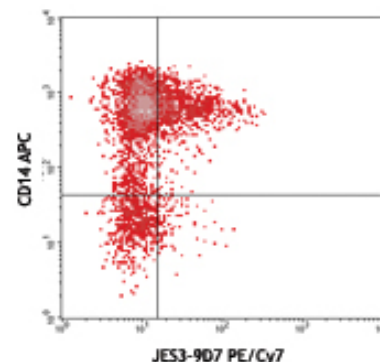
Immunogen: COS - expressed, recombinant human IL-10

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

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



LPS-stimulated (overnight) human peripheral blood mononuclear cells surface stained with CD14 APC and intracellularly stained with JES3-9D7 PE/Cy7 (top data) or rat IgG1 isotype control PE/Cy7 (bottom data) (gated on monocyte population)

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 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ 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 regarding the test size change.

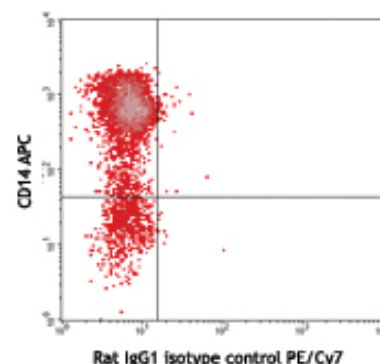
Application Notes: **ELISA Capture¹⁻⁵ or ELISPOT Capture⁶:** The purified JES3-9D7 antibody is useful as the capture antibody in a sandwich ELISA, when used in conjunction with the biotinylated JES3-12G8 antibody (Cat. No. 501502) as the detecting antibody and recombinant human IL-10 (Cat. No. 561201) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture.

Neutralization^{1-3,9}: The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ 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 staining¹²

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.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.



- Application References:**
1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. (ELISA Capture, Neut)
 2. Gottlieb 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. Schaerli 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



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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
PE/Cy7 Rat IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK2071

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



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