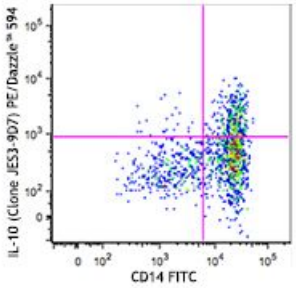
SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human IL-10

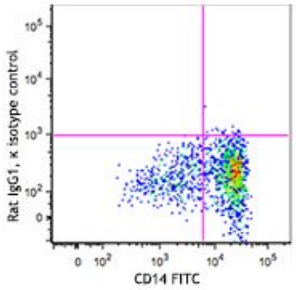
Catalog # / Size:	3107130 / 100 tests 3107125 / 25 tests
Clone:	JES3-9D7
Isotype:	Rat IgG1, κ
Immunogen:	COS - expressed, recombinant human IL-10
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	V 5T CD27.03
Concentration:	Lot-specific



LPS-stimulated human peripheral blood mononuclear cells (in the presence of monensin) were surface stained with CD14 FITC, fixed, permeabilized, and then stained with IL-10 (clone JES3-9D7) PE/Dazzle™ 594 (top) or rat IgG1, κPE/Dazzle™ 594 isotype control (bottom). Data shown was gated on monocyte population.

Applications:

Applications:	Intracellular Staining for Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intraceullular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



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Application Notes:

Other Capture[1-5] or ELISPOT Capture[6]: The purified JES3-9D7 antibody is useful as the capture antibody in a sandwich Other, when used in conjunction with the biotinylated JES3-12G8 antibody (Cat. No. 501502) as the detecting antibody and recombinant human IL-10 (Cat. No. 571009) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture.

Neutralization[1-3,9]: The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm 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[12].

Note: For testing human IL-10 in serum or plasma, Other MAX™ Sets (Cat. No. 430601 to 430606) are specially developed and recommended.

The JES3-9D7 antibody reacts with human and viral interleukin-10 (IL-10).

Application References:

1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. (Other Capture, Neut)
2. Gotlieb W, *et al.* 1992. *Cytokine* 4:385. (Other Capture, Neut)
3. Yssel H, *et al.* 1992. *J. Immunol.* 149:2378. (Other Capture, Neut)
4. Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.20. (Other Capture)
5. Burdin N, *et al.* 1993. *J. Exp. Med.* 177:295. (Other 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. 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 BCRFI. 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.

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.