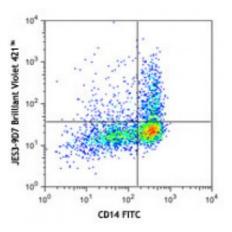
Product Data Sheet

Brilliant Violet 421[™] anti-human IL-10

Catalog # / Size:	3107105 / 25 tests 3107110 / 100 tests
Clone:	JES3-9D7
Isotype:	Rat IgG1, κ
Immunogen:	COS - expressed, recombinant human IL-10
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 421 [™] and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood mononuclear cells were stimulated overnight with LPS (in the presence of monensin), stained with CD14 FITC, fixed, permeabilized, and then stained with IL-10 (clone JES3-9D7) Brilliant Violet 421[™] (top) or rat IgG1, κ B

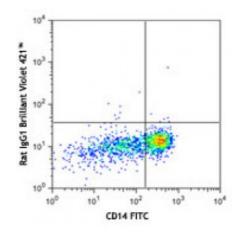
Applications:

Applications: Fl	ow Cytometry
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Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

> Brilliant Violet 421[™] excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421[™] is a trademark of Sirigen Group Ltd.

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	applications and foreign equivalents.
Application Notes:	ELISA Capture ¹⁻⁵ or ELISPOT Capture ⁶ : 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. 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, BioLegend's ELISA 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:	 Abrams J, et al. 1992. Immunol. Rev. 127:5. (ELISA Capture, Neut) Gotlieb W, et al. 1992. Cytokine 4:385. (ELISA Capture, Neut) Yssel H, et al. 1992. J. Immunol. 149:2378. (ELISA Capture, Neut) Abrams J. 1995. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.20. (ELISA Capture) Burdin N, et al. 1993. J. Exp. Med. 177:295. (ELISA Capture) Klinman D, et al. 1994. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.19. (ELISPOT Capture) Schaerli P, et al. 2000. J. Exp. Med. 192:1553. Jason J, et al. 1998. J. Clin. Diagn. Lab Immunol. 6:73. Akdis CA, et al. 1998. J. Clin. Invest. 102:98. (Neut) Stary G, et al. 2011. J. Immunol. 186:103. PubMed Mason GM, et al. 2012. PNAS. PubMed Smith DR, et al. 1994. Am. J. Pathol. 145:18. (IHC) Stanisic DI, et al. 2014. J Infect Dis. 210:295. PubMed
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

Antigen1. 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.

Th2 cell response, which results in elevated antibody production.

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