

Purified anti-human IL-10

Catalog # / Size: 506801 / 50 µg
506802 / 500 µg

Clone: JES3-19F1

Isotype: Rat IgG2a, κ

Immunogen: COS-expressed recombinant human IL-10

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: ELISA Capture - *Quality tested*
IHC, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 2-6 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-10 recombinant protein ranging from 250 to 2 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT Capture¹⁻⁴:** The Purified JES3-19F1 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated JES3-12G8 antibody (Cat. No. 501502/501503) as the detecting antibody. The LEAF™ Purified antibody is suggested for ELISPOT capture. For use as an ELISPOT capture antibody, a concentration range of 4-8 µg/ml is recommended.

Flow Cytometry: The fluorochrome-labeled JES3-19F1 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-10 -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization^{1,2}: 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. 506810).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining^{5,6} of paraformaldehyde-fixed, saponin-treated frozen tissue sections, and immunocytochemistry.

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.
2. Gotlieb W, *et al.* 1992. *Cytokine* 4:385.
3. Yssel H, *et al.* 1992. *J. Immunol.* 149:2378.
4. Burdin N, *et al.* 1993. *J. Exp. Med.* 177:295.
5. Andersson U, *et al.* 1999. *Detection and quantification of gene expression.* New York: Springer-Verlag.
6. Andersson J, *et al.* 1994. *Immunology* 83:16.

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 JES3-19F1 antibody reacts with human and viral interleukin-10 (IL-10). The JES3-19F1 antibody can neutralize the bioactivity of natural or recombinant 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	Clone	Application
	Biotin anti-human IL-10	JES3-12G8	ELISA Detection, ELISPOT Detection
	Recombinant Human IL-10	rh IL-10	BA, ELISA
	HRP Avidin	Avidin	ELISA, ELISPOT, IHC, WB
	TMB Substrate Reagent Set		ELISA
	ELISA Assay Diluent (5X)		ELISA
	Human IL-10 ELISA MAX™ Standard		ELISA
	Human IL-10 ELISA MAX™ Deluxe		ELISA



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