

## LEAF™ Purified anti-human IL-10

**Catalog # / Size:** 506810 / 500 µg

**Clone:** JES3-19F1

**Isotype:** Rat IgG2a, κ

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

**Reactivity:** Human

**Preparation:** The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

**Formulation:** 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

**Concentration:** 1.0 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

## Applications:

**Applications:** ELISA Capture - *Quality tested*  
ELISPOT Capture, Neut, ICFC, 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 Capture<sup>1-4</sup>:** 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](http://www.biolegend.com) and click on the support section.

**Neutralization<sup>1,2</sup>:** 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<sup>5,6</sup> 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**  
Recombinant Human IL-10  
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

**Clone**  
rh IL-10  
RTK2758

**Application**  
BA, ELISA  
FC, ICFC, WB, IP, ICC, IF,  
IHC, FA



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