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# Product Data Sheet

# Purified anti-human IL-10

**Catalog # / Size:** 501505 / 50 µg
501504 / 500 µg

**Clone:** JES3-12G8

**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
ICFC - *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[1-4]:** JES3-12G8 antibody is useful as a detection antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified JES3-3-9D7 antibody (Cat. No. 501402/501407) or purified JES3-19F1 antibody (Cat. No. 506802/506810) as capture antibody and recombinant human IL-10 (Cat. No. 561201) as the standard.
**Flow Cytometry:** The fluorochrome-labeled JES3-12G8 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-10 -producing cells within mixed cell populations.
**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 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. The JES3-12G8 antibody reacts with human and viral interleukin-10 (IL-10). The JES3-12G8 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.



BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587