

LEAF™ Purified anti-human IL-10

Catalog # / Size: 501406 / 50 µg
501407 / 500 µg

Clone: JES3-9D7

Isotype: Rat IgG1, κ

Immunogen: COS - expressed, recombinant human IL-10

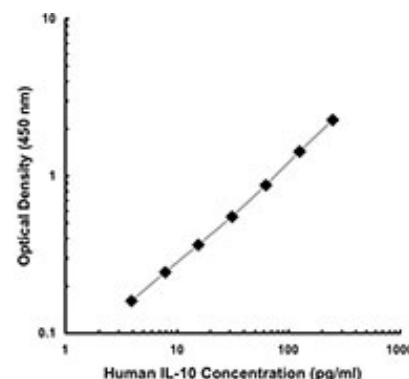
Reactivity: Human, **Cross-Reactivity:** Baboon, Rhesus, Cynomolgus

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, IHC, Neut - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISPOT capture antibody, a concentration range of 4-8 µg/ml is recommended. 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 Capture¹⁻⁵ or ELISPOT Capture⁶:** 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. 561201) 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 staining¹²

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:**
- 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.* 1999. *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)

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

- Antigen References:**
- Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook.* Academic Press San Diego.
 - de Waal-Malefyt R, *et al.* 1992. *Curr. Opin. Immunol.* 4:314.
 - Howard M, *et al.* 1992. *Immunol. Today.* 13:198.
 - Quesniaux V. 1992. *Research Immunol.* 143:385.

Related Products:

Product
Biotin anti-human IL-10

Clone
JES3-12G8

Application
ELISA Detection, ELISPOT
Detection



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Recombinant Human IL-10
HRP Avidin
LEAF™ Purified Rat IgG1, κ Isotype Ctrl

rh IL-10
Avidin
RTK2071

BA, ELISA
ELISA, ELISPOT, IHC, WB
FC, ICFC, WB, IP, ICC, IF,
IHC, FA



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