

Biotin anti-mouse IL-10

Catalog # / Size: 504905 / 50 µg
504906 / 500 µg

Clone: JES5-2A5

Isotype: Rat IgG1, κ

Immunogen: *E. coli*-expressed, recombinant mouse IL-10

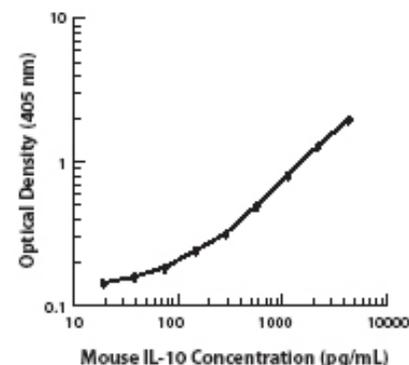
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA or ELISPOT detection, the antibody should be titrated between 0.25-1.0 µg/ml to determine optimal conditions. To obtain a linear standard curve, serial dilutions of IL-10 recombinant protein ranging from 2000 to 15 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^{1-5,7,10}:** The purified JES5-2A5 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated JES5-16E3 antibody (Cat. No. 505004) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.
ELISA or ELISPOT Detection: The biotinylated JES5-2A5 antibody is useful as the detecting antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified JES5-16E3 antibody (Cat. No. 505002/505012) as the capture antibody.
Neutralization^{2,8,9}: The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IL-10 bioactivity *in vivo* and *in vitro* (Cat. No. 504904).
Additional reported applications (for the relevant formats) include: Western blotting, *In Vivo* Capture⁶.
Note: For testing mouse IL-10 in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 431401 to 431406) are specially developed and recommended.

Application References:

1. Sander B, *et al.* 1993. *J. Immunol. Meth.* 166:201.
2. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
3. Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.20.
4. Mo X, *et al.* 1995. *J. Virol.* 69:1288.
5. Sarawar S, *et al.* 1994. *J. Immunol.* 153:1246.
6. Finkelman F, *et al.* 2003. *Curr. Prot. Immunol.* John Wiley & Sons New York. Unit 6.28.
7. Brummel R and Lenert P. 2005. *J. Immunol.* 174:2429.
8. Hara M, *et al.* 2001. *J. Immunol.* 166:3789.
9. Riemann M, *et al.* 2005. *J. Immunol.* 175:3560.
10. Xu G, *et al.* 2007. *J. Immunol.* 179:5358.

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 JES5-2A5 antibody reacts with mouse interleukin-10 (IL-10). The JES5-2A5 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-Malefy T, *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
Purified anti-mouse IL-10
Recombinant Mouse IL-10
HRP Avidin
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)
Mouse IL-10 ELISA MAX™ Standard

Clone
JES5-16E3
rm IL-10
Avidin

Application
ELISA Capture, IHC, CyTOF®
BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA
ELISA



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