

Product Data Sheet

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

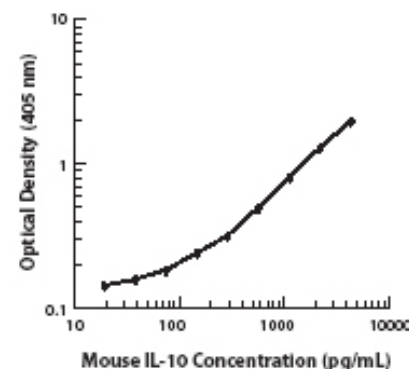
Reactivity: Mouse

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



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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