

LEAF™ Purified anti-mouse IL-10

Catalog # / Size: 504903 / 50 µg
504904 / 500 µg

Clone: JES5-2A5

Isotype: Rat IgG1, κ

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

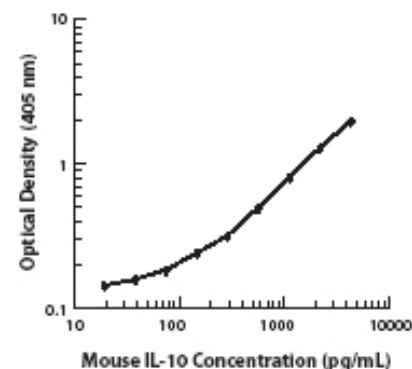
Reactivity: Mouse

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, ELISPOT Capture, ELISA Detection, Neut, WB

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA and ELISPOT capture applications, a concentration range of 4-8 µg/ml is recommended. 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.

*** For ELISA/ELISPOT capture, it is very critical to use 0.2 M Sodium Phosphate Buffer, pH 6.5 (11.8g Na₂HPO₄, 16.1g NaH₂PO₄; q.s. to 1.0 L) as coating buffer.**

Note: Carbonate buffer, pH 9.5 should not be used as coating buffer for JES5-2A5. It may cause high background and lower sensitivity.

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.
 11. Guo Z, *et al.* 2013. *J. Immunol.* 190:4337. PubMed.

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.



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4. Quesniaux, V. 1992. *Research Immunol.* 143:385.

Related Products:	Product	Clone	Application
	Biotin anti-mouse IL-10	JES5-16E3	ELISA Detection, ELISPOT Detection, ICFC
	Recombinant Mouse IL-10 HRP Avidin	rm IL-10 Avidin	BA, ELISA ELISA, ELISPOT, IHC, WB
	LEAF™ Purified Rat IgG1, κ Isotype Ctrl	RTK2071	FC, ICFC, WB, IP, ICC, IF, IHC, FA



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