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# Product Data Sheet

# Purified anti-mouse IL-10

**Catalog # / Size:** 504901 / 50 µg
504902 / 500 µg

**Clone:** JES5-2A5

**Isotype:** Rat IgG1, κ

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

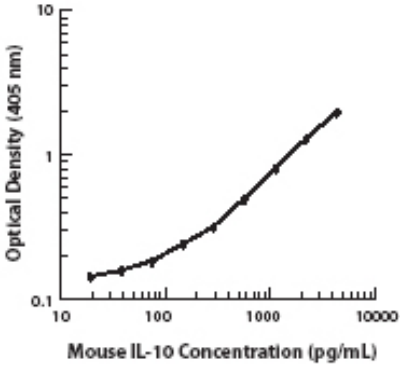
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**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 Capture, WB

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For ELISA 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 capture, it is very critical to use 0.2 M Sodium Phosphate Buffer, pH 6.5 (11.8g $Na_2HPO_4$, 16.1g $NaH_2PO_4$; 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.

**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.PubMed
10. Xu, G., *et al.* 2007. *J. Immunol.* 179:5358.PubMed
11. Koo, GC., *et al.* 2006. *BMC Immunol.* 18:7. 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 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 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 | Clone | Application |
|---|---|---|
| Biotin anti-mouse IL-10 | JES5-16E3 | ELISA Detection, ELISPOT Detection, ICFC |
| Recombinant Mouse IL-10 | rm IL-10 | BA, ELISA |
| HRP Avidin | Avidin | ELISA, ELISPOT, IHC, WB |
| TMB Substrate Reagent Set | | ELISA |
| ELISA Assay Diluent (5X) | | ELISA |
| Mouse IL-10 ELISA MAX™ Standard | | ELISA |
| Mouse IL-10 ELISA MAX™ Deluxe | | ELISA |



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