

## Anti-Mouse IL-10 Functional Grade Purified

**Catalog Number:** 16-7102

**Also Known As:** Interleukin-10, IL10

**RUO: For Research Use Only**

### Product Information

**Contents:** Anti-Mouse IL-10 Functional Grade Purified

 **Catalog Number:** 16-7102

**Clone:** JES5-2A5

**Concentration:** 1 mg/ml

**Host/Isotype:** Rat IgG1,  $\kappa$

**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### Description

The JES5-2A5 antibody reacts with mouse interleukin-10 (IL-10). The JES5-2A5 antibody is a neutralizing antibody. Mouse IL-10 is an 18 kDa factor also known as Cytokine Synthesis Inhibitory Factor (CSIF). In the mouse, Th2 cells, B1 cells, macrophages, and keratinocytes are the major cell subsets that produce IL-10. IL-10 inhibits synthesis of Th1 cytokines and proliferation of T cells, and acts as a costimulatory signal for mast cells, developing thymocytes and the Th2 response.

### Applications Reported

The JES5-2A5 antibody has been reported for use in ELISA, ELISPOT, neutralization of IL-10 bioactivity, and intracellular staining for flow cytometric analysis.

### Applications Tested

The Functional Grade Purified JES5-2A5 antibody has been tested by LAL assay to verify low endotoxin levels, by ELISA, and in bioassay for neutralization of mouse IL-10 bioactivity.

The JES5-2A5 antibody at 0.004 ug/ml has been found to inhibit by 50% the biological effects of 1.0 ng/ml mouse IL-10 in an MC/9 cell proliferation assay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

The biotinylated JES5-2A5 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of mouse interleukin-10 (IL-10) in combination with the purified JES5-16E3 (14-7101) antibody for capture and recombinant mouse IL-10 (14-8101) as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2  $\mu$ g/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 4000 pg/ml - 30 pg/ml should be included in each ELISA plate.

### References

Tsuboi Y, Abe H, Nakagawa R, Oomizu S, Watanabe K, Nishi N, Nakamura T, Yamauchi A, Hirashima M. Galectin-9 protects mice from the Shwartzman reaction by attracting prostaglandin E2-producing polymorphonuclear leukocytes. Clin Immunol. 2007 Aug;124(2):221-33. (**JES5-2A5**, NU in vivo, PubMed)

Vasu C, Gorla SR, Prabhakar BS, Holterman MJ. Targeted engagement of CTLA-4 prevents autoimmune thyroiditis. Int Immunol. 2003 May;15(5):641-54. (**JES5-2A5**, NU in vitro, PubMed)

Sander B, Hödén I, Andersson U, Möller E, Abrams JS. Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. J Immunol Methods. 1993 Dec 3;166(2):201-14.

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 1992 Jun;127:5-24.

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16-7041 Anti-Mouse IL-4 Functional Grade Purified (11B11)

16-7311 Anti-Mouse IFN gamma Functional Grade Purified (XMG1.2)

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34-8131 Mouse IL-13 Recombinant Protein Carrier-Free  
34-8151 Mouse IL-15 Recombinant Protein Carrier-Free  
34-8171 Mouse IL-17A Recombinant Protein Carrier-Free

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