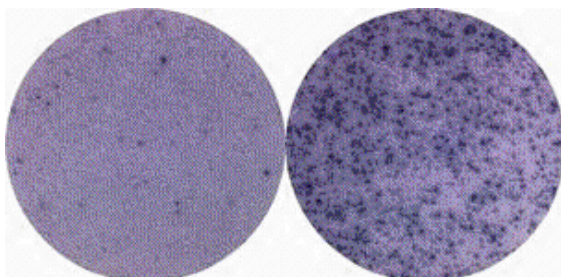


## Anti-Mouse IL-10 Functional Grade Purified

**Catalog Number:** 16-7101

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

**RUO: For Research Use Only**



Mouse splenocytes (500,000 cells per well) were activated with LPS (1 µg/ml) for 48 hrs in Mouse IL-10 ELISPOT assay. Control well is medium alone.

### Product Information

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

**REF** **Catalog Number:** 16-7101

**Clone:** JES5-16E3

**Concentration:** 1 mg/ml

**Host/Isotype:** Rat IgG2b, κ

**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.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### Description

The JES5-16E3 antibody reacts with mouse interleukin-10 (IL-10). 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 JES5-16E3 antibody has been reported for use in capture of mouse IL-10 by ELISA and ELISPOT, intracellular staining for flow cytometric analysis, IHC, and neutralization of IL-10 bioactivity.

### Applications Tested

The Functional Grade purified JES5-16E3 antibody has been tested for ELISPOT capture. A suitable range of concentrations of this antibody for ELISPOT capture is 1-4 µg/ml.

The JES5-16E3 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse interleukin-10 (IL-10) in combination with the biotinylated JES5-2A5 (13-7102) antibody for detection and recombinant mouse IL-10 (14-8101) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/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.

The fluorochrome-conjugated JES5-16E3 antibody is offered in 2 formats:

- µg size: has been tested by intracellular staining for flow cytometric analysis. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated and tested by intracellular staining and flow cytometric analysis. This can be used at 20 µl per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### References

Sander, B., I. Hoiden, et al. 1993. Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. J Immunol Meth. 1662: 201-14.

Abrams, J. 1995. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In Current Protocols in Immunology. A. Kruisbeek eds. Wiley-Interscience, New York. Unit 6.20.1.

Finkelman, F., S. Morris, T. Orekhova, and D. Sehly. 2003. The In Vivo Cytokine Capture Assay for measurement of cytokine production in the mouse. In Current Protocols in Immunology. Unit 6.28. J. Coligan, A. Kruisbeek, D. Margulies, E. Shevach, and W. Strober, eds. John Wiley and Sons, New York.

Finkelman, F.D., and S.C. Morris. 1999. Development of an assay to measure in vivo cytokine production in the mouse. Int. Immunology. 11: 1811-1818.

**Related Products**

13-7102 Anti-Mouse IL-10 Biotin (JES5-2A5)

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

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