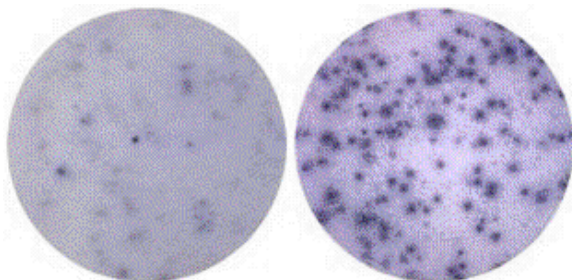


## Anti-Mouse IL-4 Purified

**Catalog Number:** 14-7041

**Also Known As:** Interleukin-4

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Splenocytes from 8 week old mice pre-immunized with OVA/IFA were recall-activated with OVA antigen for 36 hours in Mouse IL-4 ELISPOT assay. Control well is medium alone.

### Product Information

**Contents:** Anti-Mouse IL-4 Purified

**REF** **Catalog Number:** 14-7041

**Clone:** 11B11

**Concentration:** 0.5 mg/mL

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

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



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



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Caution, contains Azide**

### Description

The 11B11 antibody reacts with mouse interleukin-4 (IL-4), a 14 kD cytokine. The 11B11 antibody is a neutralizing antibody. Mouse IL-4, also known as BCDF, BCGF-1 and BSF-1, is secreted by activated Th2 and natural killer T cells, and to a lesser extent by Th1 and mast cells. IL-4 is species-specific and promotes proliferation and differentiation of B cells. IL-4, in conjunction with other signals such as CD40, induces Ig isotype switching of B cells and the upregulation of surface MHC class II and CD23.

### Applications Reported

The 11B11 antibody has been reported for use in ELISA capture, ELISPOT capture, and neutralization of IL-4 bioactivity.

### Applications Tested

The 11B11 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse Interleukin-4 (IL-4) in combination with the biotin BVD6-24G2 (cat. 13-7042) antibody for detection and recombinant mouse IL-4 (cat. 14-8041) 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 500 pg/mL - 4 pg/mL should be included in each ELISA plate.

### References

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.

Ohara, J. and W. E. Paul. 1985. Production of a monoclonal antibody to and molecular characterization of B-cell stimulatory factor-1. Nature. 1985 May 23-29;315(6017):333-6.

### Related Products

00-4201 1X TMB ELISA Substrate Solution

00-4202 ELISA Diluent Solution (5X)

13-7042 Anti-Mouse IL-4 Biotin (BVD6-24G2)

14-8041 Mouse IL-4 Recombinant Protein

18-4100 Avidin HRP

88-7044 Mouse IL-4 ELISA Ready-SET-Go!<sup>®</sup>

88-7844 Mouse IL-4 ELISPOT Ready-SET-Go!<sup>®</sup>

