

# Product Data Sheet

## Biotin anti-mouse IL-4

**Catalog # / Size:** 504201 / 50 µg  
504202 / 500 µg

**Clone:** BVD6-24G2

**Isotype:** Rat IgG1, κ

**Immunogen:** *E. coli*-expressed, recombinant mouse IL-4

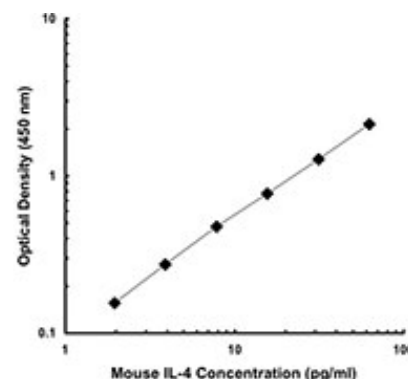
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**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. **Do not freeze.**



## Applications:

**Applications:** ELISA Detection, ELISPOT Detection

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.25-1.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-4 recombinant protein ranging from 250 to 2 pg/ml are recommended for each ELISA plate. For use as an ELISPOT detection antibody, a concentration range of 1-4 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

### Application Notes:

**ELISA Detection<sup>1-3,5,7,8</sup> or ELISPOT Detection<sup>4</sup>:** The biotinylated BVD6-24G2 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified 11B11 antibody (Cat. No. 504102/504108) as capture antibody and recombinant mouse IL-4 (Cat. No. 563201) as the standard.

**Additional reported applications (for the relevant formats) include:** *In Vivo* Capture<sup>6</sup>.

**Note:** For testing mouse IL-4 in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 431101 to 431106) are specially developed and recommended.

### Application References:

- Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
- Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.20.
- Sander B, *et al.* 1993. *J. Immunol. Meth.* 166:201.
- Fujihashi K, *et al.* 1991. *J. Immunol. Meth.* 160:181.
- Sander B, *et al.* 1991. *Immunol. Rev.* 119:65.
- Finkelman F, *et al.* 2003. *Curr. Prot. Immunol.* John Wiley & Sons New York. Unit 6.28.
- Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113.
- Xu G, *et al.* 2007. *J. Immunol.* 179:5358.

**Description:** IL-4 is a pleiotropic cytokine produced by activated T cells, mast cells, and basophils. IL-4 is a potent lymphoid cell growth factor which stimulates the growth and activation of certain B cells and T cells. IL-4 is important for regulation of T helper subset development. The BVD6-24G2 antibody reacts with mouse interleukin-4 (IL-4). The BVD6-24G2 antibody can not neutralize the bioactivity of natural or recombinant IL-4.

- Antigen References:**
- Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
  - Boulay J, *et al.* 1992. *Curr. Opin. Immunol.* 4:294.
  - Dullens H, *et al.* 1991. *In vivo* 5:567.
  - Paul W. 1991. *Blood* 77:1859.

### Related Products:

Product  
LEAF™ Purified anti-mouse IL-4

### Clone

11B11

### Application

ELISA Capture, ELISPOT  
Capture, ICFC, IHC, IP, Neut,  
CyTOF®  
ELISA Capture, IHC, IP,  
CyTOF®  
BA, ELISA  
ELISA, ELISPOT, IHC, WB  
ELISA  
ELISA  
ELISA

Purified anti-mouse IL-4

11B11

Recombinant Mouse IL-4

HRP Avidin

Avidin

TMB Substrate Reagent Set

ELISA Assay Diluent (5X)

Mouse IL-4 ELISA MAX™ Standard

Mouse IL-4 ELISA MAX™ Deluxe



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.