

## 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

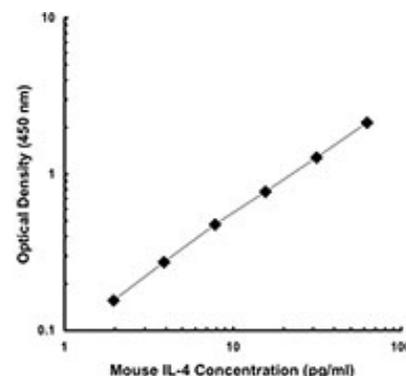
**Reactivity:** Mouse

**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	Clone	Application
LEAF™ Purified anti-mouse IL-4	11B11	ELISA Capture, ELISPOT Capture, ICFC, IHC, IP, Neut, CyTOF®
Purified anti-mouse IL-4	11B11	ELISA Capture, IHC, IP, CyTOF®
Recombinant Mouse IL-4		BA, ELISA
HRP Avidin	Avidin	ELISA, ELISPOT, IHC, WB
TMB Substrate Reagent Set		ELISA
ELISA Assay Diluent (5X)		ELISA
Mouse IL-4 ELISA MAX™ Standard		ELISA
Mouse IL-4 ELISA MAX™ Deluxe		ELISA



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