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Product Data Sheet

Purified anti-mouse II -4

Furmed and-mouse in-4	
Catalog # / Size:	504101 / 50 µg 504102 / 500 µg
Clone:	11B11 🔒
Isotype:	Rat IgG1, ĸ
Immunogen:	Partially purified native mouse IL-4
Reactivity:	Rat IgG1, κ Partially purified native mouse IL-4 Mouse The antibody was purified by affinity chromatography.
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	
Storage:	The antibody solution should be stored undiluted at 4°C.
Applications:	
Applications:	ELISA Capture - Quality tested IP, IHC - Reported in the literature CyTOF® - Validated
Recommended Usage:	Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 0.5-2.0 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. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	ELISA ^{1,2,10,13} or ELISPOT ⁵ Capture: The purified 11B11 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated BVD6-24G2 antibody (Cat. No. 504202) as the detecting antibody and recombinant mouse IL-4 (Cat. No. 575609) as the standard. The LEAF TM purified antibody is suggested for ELISPOT capture. Neutralization ^{1-2,9,12} : The 11B11 antibody can neutralize the bioactivity of natural or recombinant IL-4. The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IL-4 bioactivity <i>in vivo</i> and <i>in vitro</i> (Cat. No. 504108). Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting, immunohistochemical staining of formalin-fixed paraffin-embedded tissue sections ⁸ and paraformaldehyde-fixed, saponin-treated frozen tissue sections ^{6,7} , and immunocytochemistry. Note: For testing mouse IL-4 in serum, plasma or supernatant, BioLegend's ELISA Max TM Sets (Cat. No. 431101 to 431106) are specially developed and recommended.
Application References:	 Shirai A, et al. 1994. Cytokine 6:329. (ELISA, Neut) Abrams J. 1995. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.20. (ELISA, Neut) Assenmacher M, et al. 1994. Eur. J. Immunol. 24:1097. Openshaw P, et al. 1995. J. Exp. Med. 182:1357. Klinman D, et al. 1994. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.19. (ELISA Capture) Litton M, et al. 1994. J. Immunol. Methods 175:47. (IHC) Andersson U, et al. 1999. Detection and quantification of gene expression. New York:Springer-Verlag. (IHC) Fan WY, et al. 2001. Exp. Biol. Med. 226:1045. (IHC) Hara M, et al. 2001. J. Immunol. 166:3789. (Neut) Dzhagalov I, et al. 2007. J. Immunol. 178:2113. (ELISA)

- 11. Lawson BR, et al. 2007. J. Immunol. 178:5366.
- 12. Wang W, et al. 2007. J. Immunol. 178:4885. (Neut)
- 13. Xu G, et al. 2007. J. Immunol. 179:5358. (ELISA) PubMed 14. Ohnmacht C, et al. 2008. Blood 113:2816. PubMed
- 15. Charles N, et al. 2010. Nat. Med. 16:701. (FC) PubMed

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.

- Antigen References: 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
 - 2. Boulay J, et al. 1992. Curr. Opin. Immunol. 4:294.
 - 3. Dullens H, et al. 1991. In vivo 5:567.
 - 4. Paul W. 1991. Blood 77:1859.

Related Products: Product Clone Application BVD6-24G2 Biotin anti-mouse IL-4 ELISA Detection, ELISPOT Detection For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible

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Recombinant Mouse IL-4 HRP Avidin TMB Substrate Reagent Set ELISA Assay Diluent (5X) Mouse IL-4 ELISA MAX™ Standard Mouse IL-4 ELISA MAX™ Deluxe

Avidin

BA, ELISA ELISA, ELISPOT, IHC, WB ELISA ELISA ELISA ELISA



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BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587