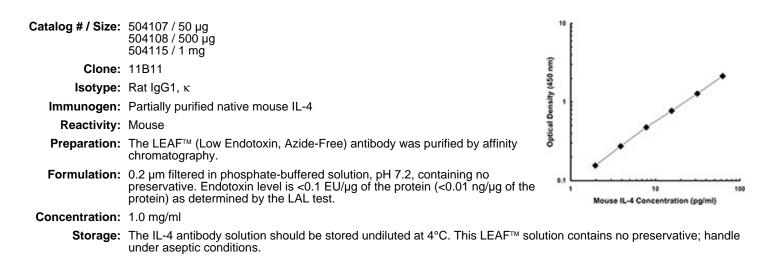


## **Product Data Sheet**

## LEAF<sup>™</sup> Purified anti-mouse IL-4



## **Applications:**

Applications:	ELISA Capture - Quality tested ELISPOT Capture, Neut, ICFC, IP, IHC - Reported in the literature CyTOF® - Validated
Recommended Usage:	Each lot of this IL-4 antibody is quality control tested by ELISA assay. For ELISPOT applications, a concentration range of 2-6 µg/ml is recommended. 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:	<ul> <li>ELISA<sup>1,2,10,13</sup> or ELISPOT<sup>5</sup> 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™ purified antibody is suggested for ELISPOT capture.</li> <li>Neutralization<sup>1-2,9,12</sup>: The 11B11 antibody can neutralize the bioactivity of natural or recombinant IL-4. The LEAF™ purified antibody (Endotoxin &lt;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).</li> <li>Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting, immunohistochemical staining of formalin-fixed paraffin-embedded tissue sections<sup>8</sup> and paraformaldehyde-fixed, saponin-treated frozen tissue sections<sup>6,7</sup>, and immunocytochemistry.</li> <li>Note: For testing mouse IL-4 in serum, plasma or supernatant, BioLegend's ELISA Max<sup>™</sup> Sets (Cat. No. 431101 to 431106) are specially developed and recommended.</li> </ul>
Application References:	<ol> <li>Shirai A, et al. 1994. Cytokine 6:329. (ELISA, Neut)</li> <li>Abrams J. 1995. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.20. (ELISA, Neut)</li> <li>Assenmacher M, et al. 1994. Eur. J. Immunol. 24:1097.</li> <li>Openshaw P, et al. 1995. J. Exp. Med. 182:1357.</li> <li>Klinman D, et al. 1994. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.19. (ELISA Capture)</li> <li>Litton M, et al. 1994. J. Immunol. Methods 175:47. (IHC)</li> <li>Andersson U, et al. 1999. Detection and quantification of gene expression. New York:Springer-Verlag. (IHC)</li> <li>Fan WY, et al. 2001. Exp. Biol. Med. 226:1045. (IHC)</li> <li>Hara M, et al. 2001. J. Immunol. 166:3789. (Neut)</li> <li>Dzhagalov I, et al. 2007. J. Immunol. 178:2113. (ELISA)</li> <li>Lawson BR, et al. 2007. J. Immunol. 178:5366.</li> <li>Wang W, et al. 2007. J. Immunol. 179:5358. (ELISA) PubMed</li> <li>Ohnmacht C, et al. 2008. Blood 113:2816. PubMed</li> <li>Charles N, et al. 2010. Nat. Med. 16:701. (FC) PubMed</li> </ol>
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.

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2. Boulay J, <i>et al.</i> 1992. <i>Curr. Opin. I</i> 3. Dullens H, <i>et al.</i> 1991. <i>In vivo</i> 5:56 4. Paul W. 1991. <i>Blood</i> 77:1859.		
Related Products: Product Purified anti-mouse IL-4	<b>Clone</b> 11B11	Application ELISA Capture, IHC, IP, CyTOF® ELISA Detection, ELISPOT Detection
Biotin anti-mouse IL-4	BVD6-24G2	
Recombinant Mouse IL-4 HRP Avidin	Avidin	BA, ELISA ELISA, ELISPOT, IHC, WB
LEAF™ Purified Rat IgG1, κ Isotype	Ctrl RTK2071	FC, ÎCFC, WB, IP, ICC, IF, IHC, FA



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