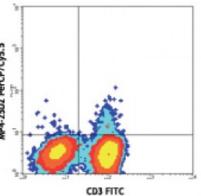
## **Product Data Sheet**

## PerCP/Cy5.5 anti-human IL-4

Catalog # / Size:	3104105 / 25 tests 3104110 / 100 tests	'n
Clone:	MP4-25D2	
Isotype:	Rat IgG1, κ	PerCP/Cy5.5
Immunogen:	CHO-expressed, recombinant human IL- 4	
<b>Reactivity:</b>	Human	-2500
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.	PMA
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	hum lymp with
<b>Concentration:</b>	Lot-specific	PerC



PMA/ionmycin-stimulated (6 hours) numan peripheral blood ymphocytes intracellularly stained with CD3 FITC and MP4-25D2 PerCP/Cy5.5

## **Applications:**

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Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Application Notes:	<ul> <li>ELISA Detection<sup>1,3</sup> or ELISPOT Detection<sup>4,5</sup>: The biotinylated MP4-25D2 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified 8D4-8 antibody (Cat. No. 500702/500707) as the capture antibody.</li> <li>Flow Cytometry<sup>6,9</sup>: The fluorochrome-labeled MP4-25D2 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-4 -producing cells within mixed cell populations.</li> <li>Neutralization<sup>1-3</sup>: The LEAF<sup>™</sup> purified antibody (Endotoxin &lt;0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IL-4 bioactivity (Cat. No. 500815). The MP4-25D2 antibody can neutralize the bioactivity of natural or recombinant IL-4.</li> </ul>
Application References:	<ol> <li>Chretien I, <i>et al.</i> 1989. <i>J. Immunol. Methods</i> 117:67. (ELISA Detection, Neut)</li> <li>Ramanathan L, <i>et al.</i> 1993. <i>Biochem.</i> 32:3549. (Neut)</li> <li>Abrams J, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 127:5. (ELISA Detection, Neut)</li> <li>Mahanty S, <i>et al.</i> 1992. <i>J. Immunol.</i> 148:3567. (ELISPOT Detection)</li> <li>Klinman D, <i>et al.</i> 1994. <i>Curr. Prot. Immunol.</i> John Wiley and Sons New York. Unit</li> <li>(ELISPOT Detection)</li> <li>Prussin C, <i>et al.</i> 1995. <i>J. Immunol. Methods</i> 188:117. (ICFC)</li> <li>Raqib R, <i>et al.</i> 1995. <i>Infect. Immun.</i> 63:289.</li> <li>Andersson J, <i>et al.</i> 1994. <i>Immunol.</i> 179:1449. (ICFC) PubMed</li> </ol>

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10. Kubota M, *et al.* 1997. *J. Immunol.* 158:5321.

11. Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113. PubMed

- 12. Kroneke MA, et al. 2012. J. Immunol. 188:3734. PubMed
- **Description:** IL-4 is a pleiotropic cytokine that is produced by activated T cells, mast cells, and basophils. IL-4 elicits many different biological responses but has two dominant functions. The first is regulating differentiation of naïve CD4<sup>+</sup> T cell to the Th2 type. Th2 cells produce IL-4, IL-5, IL-10, and IL-13, which tend to favor a humoral immune response while suppressing a cell-mediated immune response controlled by Th1 cells. The second is regulating IgE and IgG1 production by B cells.

## **Antigen** 1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San **References:** Diego.

- 2. Boulay J, et al. 1992. Curr. Opin. Immunol. 4:294.
- 3. Dullens H, et al. 1991. In vivo 5:567.
- 4. Paul