

Product Data Sheet

Biotin anti-mouse/rat/human MCP-1

Catalog # / Size:	505907 / 50 μg 505908 / 500 μg		
Clone:	2H5		
Isotype:	Armenian Hamster IgG		
Immunogen:	CHO-expressed, recombinant mouse MCP-1		
Reactivity:	Mouse, Rat, Human, Cross-Reactivity: Rhesus		
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 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of MCP-1 recombinant protein ranging from 1000 to 8 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 or ELISPOT Capture ¹ : The purified 2H5 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 4E2/MCP antibody (Cat. No. 506002) as the detecting antibody for the detection of mouse MCP-1. The purified 2H5 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 5D3-F7 antibody (Cat. No. 502609) as the detecting antibody for the detection of human MCP-1. The LEAF™ purified antibody is suggested for ELISPOT capture. Flow Cytometry ² : The fluorochrome-labeled 2H5 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify MCP-1 -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section. Neutralization ^{1,4,6} : The LEAF™ purified antibody (Endotoxin in vivo and <i>in vitro</i> (Cat. No. 505906).		
Application References:	 Additional reported applications (for the relevant formats) include: Western blotting³, immunohistochemistry⁵ of paraformaldehyde-fixed, saponin-treated frozen tissue sections. 1. Luo, Y., et al. 1994. J. Immunol. 153:3708. 2. Zhang, Y., et al. 2002. J. Immunol. 168:3088. 3. Luo, Y., et al. 1999 J. Immunol. 163:3985. 4. Morrison, B. E., et al. 2003 J. Clin. Invest. 112:1862. 5. Hancock, W. W., et al. 1997 Transplantation 64:696. 6. Yu, R., et al. 2006 Obesity 14:1353. 		
Description:	Monocyte chemotactic protein-1 (MCP-1) also known as monocyte chemotactic and activating factor (MCAF) was identified based on its ability to chemoattract monocytes. Subsequently, MCP-1 has also been found to regulate adhesion molecule expression and cytokine production in monocytes. MCP-1 is identical to the product of the JE gene, a PDGF inducible gene. MCP-1 is a member of the beta (C-C) chemokine subfamily, known as CCL2. The 2H5 antibody reacts with mouse, rat, and human MCP-1. The 2H5 antibody can neutralize the bioactivity of natural or recombinant MCP-1.		
Antigen References:	 Fitzgerald, K., <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego. Bischoff, S., <i>et al.</i> 1992. <i>J. Exp. Med.</i> 175:1271. Charo, I., <i>et al.</i> 1994. <i>P. Natl. Acad. Sci. USA</i> 91:2752. Jiang, Y., <i>et al.</i> 1992. <i>J. Immunol.</i> 148:2423. 		
Related Products	:Product Purified anti-human MCP-1 HRP Streptavidin TMB Substrate Reagent Set	Clone 5D3-F7	Application ELISA Capture, ELISPOT Capture, ICFC, IHC, IP, WB ELISA, ELISPOT, IHC, WB ELISA
	ELISA Assay Diluent (5X) Purified anti-mouse MCP-1 LEAF™ Purified anti-mouse MCP-1	4E2/MCP 4E2/MCP	ELISA ELISA ELISA Capture, WB ELISA Capture, ELISPOT Capture

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