

Biotin anti-human MCP-1 (CCL2) Antibody

Catalog# / Size	536004 / 50 µg
Clone	Poly5360
Regulatory Status	RUO
Other Names	Monocyte chemoattractant protein-1 (MCP1), Monocyte chemoattractant and activating factor (MCAF), JE, Small inducible cytokine A2 (SCYA2), HC-11 (HC11), P6, Smooth muscle cell chemotactic factor (SMC-CF, SMCCF), CCL2, MCP-1, MCP1,CCL-2, MCP-1/CCL2
Isotype	Goat Ig
Description	MCP-1, also known as CCL2, is a member of the CC chemokine family. It is widely expressed in endothelial cells, smooth muscle cells and monocytes in response to several atherogenic stimulants such as CD40 ligand, platelet derived growth factor (PDGF), interleukin-1β (IL-1β) and oxidized low density lipoprotein. In addition, MCP-1 has been implicated in monocytic infiltration of tissues during several inflammatory diseases, and has been implicated in macrophage-mediated tumor growth suppression in mice. MCP-1 has been shown to have direct effects on tumor cells in an autocrine and paracrine fashion in multiple cancers, including breast, lung, cervical, ovarian, and prostatic. In addition, MCP-1 plays a key role in the regulation of MMPs during transmigration.

Product Details

Verified Reactivity	Human
Antibody Type	Polyclonal
Host Species	Goat
Immunogen	Recombinant protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	ELISA Detection - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . For ELISA Detection applications, a concentration range of 0.01 - 0.5 µg/mL is recommended. To obtain a linear standard curve, serial dilutions of MCP-1 recombinant protein ranging from 1000 to 15.6 pg/mL is recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The biotinylated Poly5360 antibody is useful as the detection antibody in a sandwich ELISA assay, when used in conjunction with the purified Poly5360 antibody (Cat. No. 536002) as the capture antibody and Recombinant Human MCP-1 (CCL2) (ELISA Std.) (Cat. No. 565001).
RRID	AB_2734497 (BioLegend Cat. No. 536004)

Antigen Details

Structure	CC chemokine, dimer, 13.8 kD (Mammalian)
Distribution	Monocytes, vascular endothelial cells, smooth muscle, glomerular mesangial cells
Function	Upregulated by IL-1, TNF-α, PDGF, TGF-β

Interaction	Monocytes, basophils, T cells, NK cells, immature dendritic cells
Ligand/Receptor	CCR2, CCR5, CCR10, D6, possibly L-CCR
Cell Type	Endothelial cells, Monocytes
Biology Area	Cell Biology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Fitzgerald KA, <i>et al.</i> 2001. <i>The Cytokine FactsBook</i>; Academic Press, San Diego. 2. Bischoff SC, <i>et al.</i> 1992. <i>J. Exp. Med.</i> 175:1271. 3. Charo IF, <i>et al.</i> 1994. <i>Proc. Natl. Acad. Sci. USA.</i> 91:2752. 4. Jiang Y, <i>et al.</i> 1992. <i>J. Immunol.</i> 148:2423.
Gene ID	6347

Related Protocols

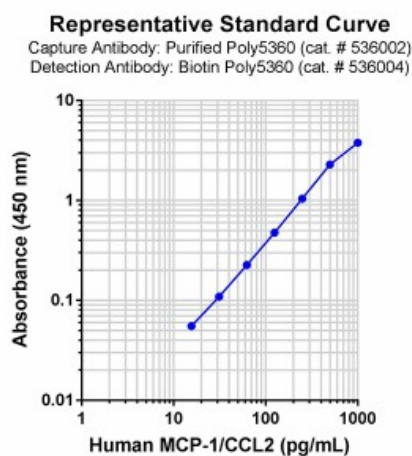
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

Purified anti-human MCP-1 (CCL2), Biotin anti-human MCP-1 (CCL2)

Product Data



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