10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MCP-1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1014a

Product Information

Application	WB, E
Primary Accession	P13500
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1A7B8
Isotype	IgG1.kappa
Calculated MW	11025
Description	Monocyte chemoattractant protein-1 (MCP-1) is a member of the chemokine-beta family of cytokines. The protein is structurally related to the CXC subfamily of cytokines. Members of this subfamily are characterized by two cysteines separated by a single amino acid. This cytokine displays chemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4. It may play a inprotant role in the initiation and/or progression of pulmonary hypertension (PH). Blockade of a systemic MCP-1 signal pathway in vivo may prevent PH.
Immunogen	Purified recombinant fragment of human MCP-1 expressed in E. Coli.
Formulation	Purified antibody in PBS containing 0.03% sodium azide.

Additional Information

Gene ID	6347
Other Names	C-C motif chemokine 2, HC11, Monocyte chemoattractant protein 1, Monocyte chemotactic and activating factor, MCAF, Monocyte chemotactic protein 1, MCP-1, Monocyte secretory protein JE, Small-inducible cytokine A2, CCL2, MCP1, SCYA2
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MCP-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCL2
Synonyms	MCP1, SCYA2
Function	Acts as a ligand for C-C chemokine receptor CCR2 (PubMed: 10529171, PubMed:10587439, PubMed:9837883). Signals through binding and activation of CCR2 and induces a strong chemotactic response and mobilization of intracellular calcium ions (PubMed:10587439, PubMed:9837883). Exhibits a chemotactic activity for monocytes and basophils but not neutrophils or eosinophils (PubMed:8195247, PubMed:8627182, PubMed:9792674). May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis (PubMed:8107690).
Cellular Location	Secreted
Tissue Location	Expressed in the seminal plasma, endometrial fluid and follicular fluid (at protein level) (PubMed:23765988). Expressed in monocytes (PubMed:2513477).

References

1. Yoshimura T. et al. 1989. FEBS Lett. 244:487-493. 2. Yoshimura T. et al. 1991. Adv. Exp. Med. Biol. 305:47-56. 3. Rollins B.J. et al. 1991. Genomics. 10:489-492.

Images

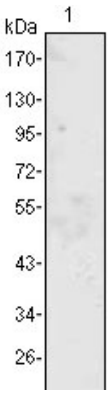


Figure 1: Western blot analysis using MCP1 mouse mAb against truncated MCP-1 recombinant protein.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.