

Product datasheet for **AM26297PU-N**

MCP1 (CCL2) Mouse Monoclonal Antibody [Clone ID: MNA1]

Product data:

Product Type: Primary Antibodies

Clone Name: MNA1

Applications: ELISA, FN, IHC, IP, WB

Recommended Dilution: **Immunohistochemistry on Frozen Sections** (Ref.1,2): Tissue sections were air dried and pretreated with 3% hydrogen peroxide to quench endogenous peroxidases. As negative control the MNA.1 antibody was omitted (Ref.2).

Immunohistochemistry on Paraffin Sections (Ref.5,7,9): Tissue sections were fixed in formalin and pretreated with hydrogen peroxide to quench endogenous peroxidases. Antigen retrieval was performed by pressure cooking for 3 minutes in PBS. As negative control the MNA.1 antibody was omitted (Ref.7).

Flow Cytometry (Ref.6): Antibody MNA.1 stains intracellular MCP-1. For intracellular staining HUVEC cells were permeabilized with buffer containing 0.1% saponin. The cells were fixed in 4% paraformaldehyde before staining. As negative control a corresponding isotype control antibody was used (Ref.5).

Functional Assays: Antibody MNA.1 inhibits migration of monocytes by neutralizing MCP-1 (Ref.1).

Immunoassays (Ref.1,4,8).

Immunoprecipitation (Ref.3).

Western blot: A reduced sample treatment and 15% SDS-Page was used. The band sizes are ~14 and 11 kDa (Ref.1).

Reactivity: Human, Porcine

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Recombinant Human MCP-1

Specificity: Monoclonal antibody MNA.1 (formerly known as 5D3-F7) recognizes Human natural and recombinant monocyte chemotactic protein-1 (MCP-1).

No cross-reactivity with MCP-2 or MCP-3 has been detected.



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Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% BSA
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	C-C motif chemokine ligand 2
Database Link:	Entrez Gene 6347 Human P13500
Background:	Monocyte chemotactic protein-1 (MCP-1) is a 11 kDa protein belonging to the CC subgroup of the chemokine superfamily, which stimulate the migration of monocytic cells. In contrast, the CXC chemokines predominantly activate polymorphonuclear leukocytes. The coordinated synthesis and release of MCP-1 plays a central role in both acute and chronic inflammatory processes by controlling the influx of phagocytic cells. Furthermore, their state of activation is in concert with primary inflammatory cytokines, such as IL-1, TNF-α, and IL-6. A selective accumulation of MCP-1 in the cerebrospinal fluid (CSF) of AIDS patients with cytomegalovirus encephalitis, but not with other opportunistic infections or primary lymphomas of the central nervous system, has been described. Furthermore, the chemotactic activity of MCP-1 on monocytic cells has been suggested to play a role in psoriasis, rheumatoid arthritis and atherosclerosis.
Synonyms:	C-C motif chemokine 2, SCYA2, MCAF, Small-inducible cytokine A2, MCP-1, HC11, HC-11