

Product datasheet for **DM2034HRP**

MCP1 (CCL2) Mouse Monoclonal Antibody [Clone ID: S101]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S101
Applications:	ELISA
Recommended Dilution:	ELISA: This MCP1 antibody HRP-conjugated can be used as a Tracer/Detection antibody in Sandwich ELISA applications for Human MCP-1 detection in combination with a Capture antibody Clone S14 (Cat.-No DM2032) Suggested Capture Coating Dose: ~0.3 µg/ml Substrate: TMB. If the above suggested conditions are followed approximately 1.5 pg/mL of MCP-1 in serum/plasma or 4 pg/ml of MCP-1 in medium can be detected with an assay range of 0-1600 pg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant Human MCP1.
Specificity:	This monoclonal antibody reacts with natural and recombinant Human MCP-1. Does not react with Human interleukin-8 (IL-8) and other human cytokines tested such as interleukin-1 beta (IL1 beta), serum amyloid A (SAA) and epidermal growth factor (EGF)
Formulation:	0.01M PBS, pH 7.0 ± 0.1 in 50% Glycerol and 0.01% Thimerosal as a bacteriostat Label: HRP State: Liquid purified IgG fraction Label: Horseradish Peroxidase
Purification:	Affinity Chromatography on Protein G
Conjugation:	HRP
Storage:	Upon receipt, store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	C-C motif chemokine ligand 2



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Database Link: [Entrez Gene 6347 Human P13500](#)

Background: Monocyte chemoattractant protein-1 (MCP-1), also known as CCL2, monocyte chemoattractant activating factor (MCAF) or glioma-derived chemoattractant factor-2 (GDCF-2), is the product of the human JE gene and a member of the family of C-C (or beta) chemokines (1-4). The predicted molecular weight of MCP-1 protein is 11-13 kDa, but it may migrate at 20-30 kDa due to glycosylation. MCP-1 is secreted by a variety of cell types in response to pro-inflammatory stimuli and was originally described for its chemoattractant activity on monocytes. This activity has led to studies demonstrating its role in diseases characterized by monocyte infiltrates such as psoriasis (5), rheumatoid arthritis (6) and atherosclerosis (7). MCP-1 may also contribute to tumor progression and angiogenesis (8). Signaling by MCP-1 is mediated by the G-protein coupled receptor CCR2 (9).

Synonyms: C-C motif chemokine 2, SCYA2, MCAF, Small-inducible cytokine A2, MCP-1, HC11, HC-11

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Chemokine signaling pathway, Cytokine-cytokine receptor interaction, NOD-like receptor signaling pathway