

Product datasheet for DM2032

MCP1 (CCL2) Mouse Monoclonal Antibody [Clone ID: S14]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S14
Applications:	ELISA, FN, WB
Recommended Dilution:	ELISA: React with Human MCP-1. This antibody can be used as a Capture antibody in Sandwich ELISA applications for Human MCP-1 detection in combination with a monoclonal tracer/detection antibody (HRP conjugated Cat.-No DM2034HRP or Biotin conjugated Cat.-No DM2034B) Suggested Capture Coating Dose: 0.3 µg/well. 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. Neutralizing: The antibody (Clone S14) at a concentration of 0.5 µg/ml, neutralized 1nM recombinant Human MCP-1 induced monocyte chemotaxis in blind well chemotaxis chambers. It was also found that S-14 could inhibit the activity of native MCP-1 at concentrations similar to inhibitory doses for recombinant MCP-1. Western Blot: MCP1 antibody at 0.1-1.0 µg/mL will allow visualization of 0.1 µg/lane of Recombinant Human MCP1.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant Human MCP1.
Specificity:	This MCP1 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 7.2 without preservatives State: Azide Free State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with double distilled water to adjust the final concentration to 1.00 mg/ml
Purification:	Affinity Chromatography on Protein G



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Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (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
Database Link:	Entrez Gene 6347 Human P13500
Background:	This chemotactic factor attracts monocytes and basophils but not neutrophils or eosinophils and augments monocyte anti-tumor activity. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. It may be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis.
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