MCP-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCP-1, Polyclonal Antibody
Full Product Name	RABBIT ANTI MOUSE MCP-1
Product Gene Name	anti-MCP-1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Form/Format	Purified Purified IgG - lyophilised
Concentration	IgG concentration 1.0 mg/ml (lot specific)
Preparation and Storage	Prior to reconstitution store at 4 degree C. Following reconstitution store at -20 degree C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.
Molecular Weight	16,326 Da
3D Structure	ModBase 3D Structure for P10148
Reconstitution	Reconstitute with 0.1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. MyBioSource recommends that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide
Buffer Solution	Phosphate buffered saline
Antiserum Preparation	Antisera to mouse MCP-1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Target Species	Mouse
Applications Tested/Suitable for anti-MCP-1 antibody	ELISA (EIA), Functional Assays (FN), Western Blot (WB)
Application Notes for anti-MCP-1 antibody	**ELISA:** Minimum Dilution: 0.5; Maximum Dilution: 2.0ug/ml; **Functional Assays:** Minimum Dilution: 4.0; Maximum Dilution: 6.0ug/ml; **Western Blotting:** Minimum Dilution: 0.1; Maximum Dilution: 0.2ug/ml
Related Product Information for anti-MCP-1 antibody	Rabbit anti Mouse MCP-1 antibody recognizes mouse monocyte chemotactic protein-1 (MCP-1), also known as CCL2, Small-inducible cytokine A2 or Platelet-derived growth factor-inducible protein JE. Mouse MCP-1 is a 148 amino acid ~16kDa secreted monocyte chemotactic factor The chemokine MCP-1 is expressed by a range of cells including monocytes, vascular endothelial cells, smooth muscle cells, glomerular mesangial cells and osteoblasts. MCP-1 is thought to play an important role in the inflammatory response of blood monocytes and tissue macrophages.
Other Notes	Small volumes of anti-MCP-1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MCP-1 purchase	MBS221272 is an antibody targeting MCP-1. Also known as RABBIT ANTI MOUSE MCP-1. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCP-1. It may not necessarily be applicable to this product.

NCBI GI #	6755430
NCBI GeneID	20296
NCBI Accession #	NP_035463.1
UniProt Primary Accession #	P10148
UniProt Secondary Accession #	Q9QYD7
UniProt Related Accession #	P10148
GenBank Nucleotide #	NM_011333.3
NCBI Official Full Name	C-C motif chemokine 2
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 2
NCBI Official Symbol	Ccl2
NCBI Official Synonym Symbols	JE; HC11; MCAF; MCP1; MCP-1; Scya2; Sigje; SMC-CF; AI323594
UniProt Protein Name	C-C motif chemokine 2
UniProt Synonym Protein Names	Monocyte chemoattractant protein 1; Monocyte chemotactic protein 1; MCP-1; Platelet-derived growth factor-inducible protein JE; Small-inducible cytokine A2
Protein Family	Major capsid protein
UniProt Gene Name	Ccl2
UniProt Synonym Gene Names	Je; Mcp1; Scya2; MCP-1
UniProt Entry Name	CCL2_MOUSE
NCBI Protein Information	C-C motif chemokine 2; monocyte chemoattractant protein 1; monocyte chemoattractant protein-1; monocyte chemotactic protein 1; platelet-derived growth factor-inducible protein JE; small inducible cytokine A2; small-inducible cytokine A2
NCBI Summary for MCP-1	This gene is one of several cytokine genes clustered on chromosome 11. Chemokines are a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of N-terminal cysteine residues of the mature peptide. This chemokine is a member of the CC subfamily which is characterized by two adjacent cysteine residues. This cytokine displays chemotactic activity for monocytes and memory T cells but not for neutrophils. The human ortholog has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, such as psoriasis, rheumatoid arthritis, and atherosclerosis. [provided by RefSeq, Sep 2015]

UniProt Comments for MCP-1	CCL13: Chemotactic factor that attracts monocytes, lymphocytes, basophils and eosinophils, but not neutrophils. Signals through CCR2B and CCR3 receptors. Plays a role in the accumulation of leukocytes at both sides of allergic and non-allergic inflammation. May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. May play a role in the monocyte attraction in tissues chronically exposed to exogenous pathogens. By IL1/interleukin-1 and TNF. Widely expressed. Found in small intestine, thymus, colon, lung, trachea, stomach and lymph node. Low levels seen in the pulmonary artery smooth muscle cells. Belongs to the intercrine beta (chemokine CC) family. Protein type: Secreted; Motility/polarity/chemotaxis; Chemokine; Secreted, signal peptide Cellular Component: extracellular space; cell soma; rough endoplasmic reticulum; perinuclear region of cytoplasm; endocytic vesicle; cytoplasm; dendrite; extracellular region; perikaryon; synapse; nerve terminal Molecular Function: heparin binding; protein binding; G-protein-coupled receptor binding; chemokine activity; CCR2 chemokine receptor binding; cytokine activity Biological Process: positive regulation of cell adhesion; positive regulation of leukocyte migration; positive regulation of collagen biosynthetic process; chemotaxis; positive regulation of synaptic transmission; positive regulation of cellular extravasation; regulation of cell shape; transforming growth factor beta receptor signaling pathway; response to wounding; positive regulation of cell-cell adhesion; angiogenesis; inflammatory response; lymphocyte chemotaxis; neutrophil chemotaxis; cytokine and chemokine mediated signaling pathway; cytoskeleton organization and biogenesis; glial cell migration; positive regulation of tumor necrosis factor production; macrophage chemotaxis; leukocyte migration during inflammatory response; cellular calcium ion homeostasis; negative regulation of angiogenesis; positive regulation of leukocyte mediated cytotoxicity; response to heat; eosinophil chemotaxis; positive regulation of endothelial cell proliferation; immune response; positive regulation of T cell activation; vascular endothelial growth factor receptor signaling pathway; positive regulation of nitric-oxide synthase biosynthetic process
Research Articles on MCP-1	**1.** phagocytosis of refrigerator-stored RBCs in vivo induced increases in circulating monocyte chemoattractant protein-1 (MCP-1) and keratinocyte chemoattractant (KC)
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