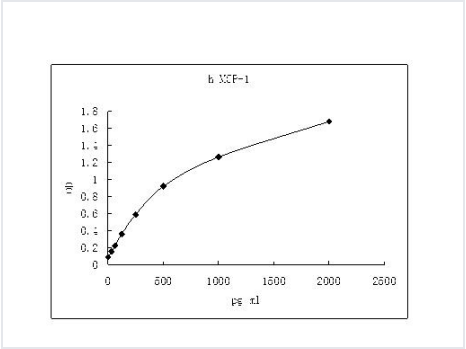
MCP-1 ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	MCP-1, ELISA Kit
Full Product Name	Human MCP-1 ELISA KIT
Product Gene Name	MCP-1 elisa kit
Product Synonym Names	Human MCP-1
Species Reactivity	Human
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	31.25-2000pg/mL
Sensitivity	15pg/mL
Specificity	Natural and recombinant Human MCP-1 Ligand
Preparation and Storage	Store at 4 degree C
Molecular Weight	11,025 Da
OMIM	M24545 mRNA
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Related Product Information for MCP-1 elisa kit	MBS9424836 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the MCP-1, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MCP-1. The ELISA analytical biochemical technique of the MBS9424836 kit is based on MCP-1 antibody-MCP-1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MCP-1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MCP-1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of MCP-1 elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of MCP-1 elisa kit
Representative standard curve for MCP-1 ELISA. MCP-1 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL DETAILS

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

NCBI GI #	545465
NCBI GeneID	6347
NCBI Accession #	AAB29926.1
UniProt Secondary Accession #	Q9UDF3; B2R4V3
UniProt Related Accession #	P13500
NCBI Official Full Name	MCP-1
NCBI Official Synonym Full Names	C-C motif chemokine ligand 2
NCBI Official Symbol	CCL2
NCBI Official Synonym Symbols	HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
UniProt Protein Name	C-C motif chemokine 2
UniProt Synonym Protein Names	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
Protein Family	Major capsid protein
UniProt Gene Name	CCL2
UniProt Synonym Gene Names	MCP1; SCYA2; MCAF; MCP-1
NCBI Protein Information	C-C motif chemokine 2
NCBI Summary for MCP-1	This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. 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 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. [provided by RefSeq, Jul 2013]

UniProt Comments for MCP-1	CCL2: Chemotactic factor that attracts monocytes and basophils but not neutrophils or eosinophils. Augments monocyte anti-tumor activity. Has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. Monomer or homodimer; in equilibrium. Binds to CCR2 and CCR4. Is tethered on endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. Belongs to the intercrine beta (chemokine CC) family. Protein type: Chemokine; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 17q12 Cellular Component: extracellular region; extracellular space Molecular Function: CCR2 chemokine receptor binding; chemokine activity; protein kinase activity; receptor binding Biological Process: angiogenesis; astrocyte cell migration; cell adhesion; cell surface receptor linked signal transduction; cellular homeostasis; chemotaxis; cytokine and chemokine mediated signaling pathway; cytoskeleton organization and biogenesis; G-protein coupled receptor protein signaling pathway; G-protein signaling, coupled to cyclic nucleotide second messenger; humoral immune response; inflammatory response; JAK-STAT cascade; lipopolysaccharide-mediated signaling pathway; macrophage chemotaxis; MAPKKK cascade; monocyte chemotaxis; negative regulation of neuron apoptosis; neutrophil chemotaxis; organ morphogenesis; positive regulation of GTPase activity; positive regulation of nitric-oxide synthase biosynthetic process; positive regulation of T cell activation; protein amino acid phosphorylation; protein kinase B signaling cascade; regulation of cell shape; viral genome replication Disease: Human Immunodeficiency Virus Type 1, Susceptibility To; Mycobacterium Tuberculosis, Susceptibility To; Neural Tube Defects
Research Articles on MCP-1	**1.** Low wall shear stress concomitant with turbulent flow contributes to sustained expression of MCP-1 in endothelial cells and presumably plays a role in facilitating macrophage infiltration and exacerbating inflammation, which leads to enlargement or rupture of intracranial aneurysms.
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