Monocyte Chemotactic Protein 1/Monocyte Chemotactic and Activating Factor (MCP-1) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Monocyte Chemotactic Protein 1/Monocyte Chemotactic and Activating Factor (MCP-1), ELISA Kit
Full Product Name	Chicken Monocyte Chemotactic Protein 1/Monocyte Chemotactic and Activating Factor ELISA Kit
Product Gene Name	MCP-1 elisa kit
Species Reactivity	Chicken
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	11,025 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (32582296..32584222). Location: 17q11.2-q12
OMIM	158105
3D Structure	ModBase 3D Structure for P13500
Related Product Information for MCP-1 elisa kit	MBS009934 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Monocyte Chemotactic Protein 1/Monocyte Chemotactic and Activating Factor (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 MBS009934 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.

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 Primary Accession #	P13500
UniProt Secondary Accession #	Q9UDF3; B2R4V3
UniProt Related Accession #	P13500
NCBI Official Full Name	MCP-1
NCBI Official Synonym Full Names	chemokine (C-C motif) 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
UniProt Entry Name	CCL2_HUMAN
NCBI Protein Information	C-C motif chemokine 2; small-inducible cytokine A2; monocyte secretory protein JE; monocyte chemotactic protein 1; monocyte chemoattractant protein 1; monocyte chemoattractant protein-1; monocyte chemotactic and activating factor; small inducible cytokine subfamily A (Cys-Cys), member 2; small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je)
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: Secreted, signal peptide; Motility/polarity/chemotaxis; Secreted; Chemokine Chromosomal Location of Human Ortholog: 17q11.2-q12 Cellular Component: extracellular space; rough endoplasmic reticulum; perinuclear region of cytoplasm; endocytic vesicle; dendrite; extracellular region; perikaryon; synapse; nerve terminal Molecular Function: heparin binding; CCR2 chemokine receptor binding; chemokine activity; protein kinase activity; receptor binding Biological Process: maternal process involved in pregnancy; protein amino acid phosphorylation; response to antibiotic; regulation of cell shape; monocyte chemotaxis; cell surface receptor linked signal transduction; response to vitamin B3; transforming growth factor beta receptor signaling pathway; cellular homeostasis; negative regulation of neuron apoptosis; cell adhesion; neutrophil chemotaxis; organ regeneration; positive regulation of tumor necrosis factor production; JAK-STAT cascade; response to amino acid stimulus; G-protein signaling, coupled to cyclic nucleotide second messenger; organ morphogenesis; unfolded protein response, activation of signaling protein activity; response to ethanol; cellular response to insulin stimulus; response to bacterium; response to heat; response to mechanical stimulus; positive regulation of endothelial cell proliferation; response to activity; response to progesterone stimulus; positive regulation of nitric-oxide synthase biosynthetic process; positive regulation of collagen biosynthetic process; chemotaxis; signal transduction; positive regulation of synaptic transmission; positive regulation of cellular extravasation; response to wounding; lipopolysaccharide-mediated signaling pathway; protein kinase B signaling cascade; response to gamma radiation; angiogenesis; inflammatory response; lymphocyte chemotaxis; aging; unfolded protein response; cytokine and chemokine mediated signaling pathway; MAPKKK cascade; cytoskeleton organization and biogenesis; viral genome replication; macrophage chemotaxis; leukocyte migration during inflammatory response; humoral immune response; cellular calcium ion homeostasis; G-protein coupled receptor protein signaling pathway; positive regulation of leukocyte mediated cytotoxicity; negative regulation of angiogenesis; cellular protein metabolic process; maternal process involved in parturition; response to hypoxia; positive regulation of T cell activation; vascular endothelial growth factor receptor signaling pathway; astrocyte cell migration Disease: Neural Tube Defects; Mycobacterium Tuberculosis, Susceptibility To; Human Immunodeficiency Virus Type 1, Susceptibility To

Research Articles on MCP-1	**1.** Ca(2+)-independent PKC mediates thrombin-induced MCP-1 release in cultured human lung fibroblasts.
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