

MCP-1 elisa kit

Human MCP-1 ELISA KIT

CATALOG #
AAA267240

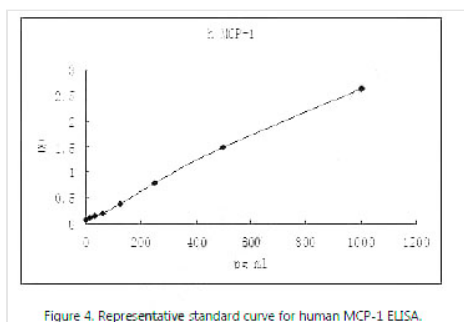
PRODUCT SYNONYMS

MCP-1; Human MCP-1 ELISA KIT; MCP-1 elisa kit

PRODUCT SPECIFICATIONS

Specificity	This assay recognizes both natural and recombinant human MCP-1. The factors listed below were prepared at 50ng/ml in Standard /sample Diluent and assayed for cross-reactivity and no significant cross-reactivity or interference was observed.
Sequence Length	99
Assay Type	Quantitative Sandwich
Sensitivity	4pg/mL

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MCP-1 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for MCP-1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MCP-1 present is bound by the immobilized antibody. Following incubation unbound samples are removed during a wash step, and then a detection antibody specific for MCP-1 is added to the wells and binds to the combination of capture antibody- MCP-1 in sample. Following a wash to remove any unbound combination, and enzyme conjugate is added to the wells. Following incubation and wash steps a substrate is added. A coloured product is formed in proportion to the amount of MCP-1 present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450nm. A standard curve is prepared from seven MCP-1 standard dilutions and MCP-1 sample concentration determined.!!Background/Introduction: Monocyte chemoattractant protein-1 (MCP-1) called also monocyte chemotactic protein-1. MCP-1 is an 8.6kDa protein and belongs to the family of chemotactic cytokines known as Chemokines. MCP-1 is expressed by monocytes, vascular endothelial cells, smooth muscle cells, glomerular mesangial cell, osteoblastic cells, and human pulmonary type-2-like epithelial cells in culture. MCP-1 exhibits chemotactic activity for monocytes/macrophages, basophils, T lymphocytes, particularly memory T cells and natural killer cells and neural stem cells. Elevated levels of MCP-1 are detected during inflammation and immune responses. MCP-1 activity is also important in wound healing as shown by delayed wound repair in MCP-1deficient mice. MCP-1 is implicated in the pathogenesis of disease states that involve monocyte/macrophage infiltrates, such as psoriasis, rheumatoid arthritis and recruitment of monocytes to the arterial wall in atherosclerosis. In addition to its chemotactic function, MCP-1 also induces the expression of IL-10 from macrophages, which favours a TH2 immune response. MCP-1 is a glycopeptide containing one potential N-linked glycosylation site. The extent of MCP-1 glycosylation influences its chemotactic potency and half-life in vivo.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	545465
NCBI GeneID	6347
Molecular Weight	11,025 Da
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
NCBI Protein Information	C-C motif chemokine 2
UniProt Protein Name	C-C motif chemokine 2
UniProt Gene Name	CCL2
UniProt Synonym Gene Names	MCP1; SCYA2; MCAF; MCP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.