

Human Monocyte Chemotactic Protein 1 ELISA Kit | MCP-1 elisa kit

Human Monocyte Chemotactic Protein 1 ELISA Kit

CATALOG #
AAA17691

REACTIVITY
Human

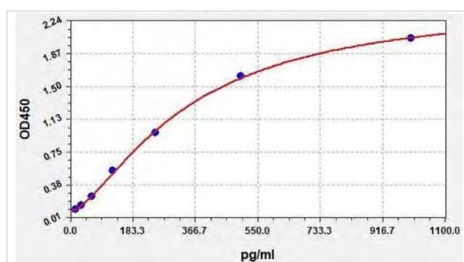
PRODUCT SYNONYMS

Monocyte Chemotactic Protein 1; Human Monocyte Chemotactic Protein 1 ELISA Kit; MCP-1/CCL2/GDCF-2/HC11/HSMCR30/MCAF/MCP1/SCYA2/SMC-CF; MCP-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize MCP-1, no obvious cross reaction with other analogues
Sequence Length	44
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MCP-1 elisa kit	Background: MCP-1, also known as Monocyte Chemoattractant Protein-1, can cause the chemotaxis and activation of monocytes. It is produced by various cells, including monocytes, endothelial cells, smooth muscle cells, and fibroblasts. MCP-1 plays an important role in inflammation and immune responses. After tissue damage or infection, MCP-1 is produced and released into surrounding tissues, attracting immune cells such as monocytes and macrophages to the site of injury and participating in the inflammatory response and healing process. In addition, MCP-1 is involved in the development and progression of various diseases such as cardiovascular disease, cancer, and diabetes. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti MCP-1 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti MCP-1 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with MCP-1 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of MCP-1 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	663497593
Molecular Weight	5,028 Da
NCBI Official Full Name	monocyte chemotactic protein-1, partial
UniProt Protein Name	Monocyte chemotactic protein-1
UniProt Gene Name	MCP-1
UniProt Entry Name	A0A075IJR0_MUSPF

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mcp-1-human-elisa-kits/monocyte-chemotactic-protein-1/17691>