

Mouse MCP-1 / CCL2 ELISA Kit | MCP-1 / CCL2 elisa kit

MCP-1 / CCL2 Mouse ELISA Kit

CATALOG # AAA58984	REACTIVITY Mouse	APPLICATIONS ELISA
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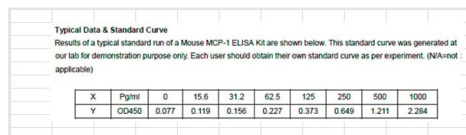
PRODUCT SYNONYMS

MCP-1 / CCL2; MCP-1 / CCL2 Mouse ELISA Kit; Mouse MCP-1 / CCL2; MCP-1 / CCL2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Mouse serum, plasma, body fluids, tissue lysates or cell culture supernatants
Assay Type	Quantitative Sandwich
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	< 6 pg/ml
Applicable Applications for MCP-1 / CCL2 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MCP-1 / CCL2 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-MCP-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-MCP-1 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the MCP-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of MCP-1 can be calculated.

Background/Introduction: Monocyte chemotactic protein-1(MCP-1), known as chemokine(C-C motif) ligand 2(CCL2) or small inducible cytokine A2, is a small cytokine belonging to the CC chemokine family. The CCL2 gene is located on chromosome 17 (17q11.2-q21.1) in humans, and spans 1,927 bases. It has three exons and two introns, and produced as a protein precursor containing signal peptide of 23 amino acids and a mature peptide of 76 amino acids. The predicted weight is 11.025 kiloDaltons (kDa). MCP-1 has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It induces amylin expression through ERK1/ ERK2/ JNK-AP1 and NF-kappaB related signaling pathways independent of CCR2. Amylin upregulation by CCL2 may contribute to elevation of plasma amylin in obesity and insulin resistance.

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.

