

ARG83336 Human CCL2 / MCP1 ELISA Kit

Package: 96 wells
Store at: 4°C; -20°C

Component

Cat. No.	Component Name	Package	Temp
ARG83336-01	Antibody Coated Microplate	8 X 12 strips	4°C
ARG83336-02	Standard (Lyophilized)	3 vials	4°C
ARG83336-03	100X Antibody Conjugate	120 µl	≤ -20°C
ARG83336-04	1000X HRP-Streptavidin solution	15 µl	4°C
ARG83336-05	Standard/Sample Diluent Buffer	20 ml	4°C
ARG83336-06	Antibody Diluent Buffer	35 ml	4°C
ARG83336-07	10X Wash Buffer	50 ml	4°C
ARG83336-08	TMB substrate	12 ml	4°C
ARG83336-09	STOP solution	12 ml	4°C.
ARG83336-10	Plate sealer	3 adhesive strips	

Summary

Product Description	ARG83336 Human MCP1 / CCL2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human MCP1 / CCL2 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human CXCL-16, MCP-2, MIP-1 alpha, MIP-1 beta, RANTES, GRO/MGSA, GRO gamma, GRO beta, IL-8; Mouse MIP-1 alpha, MIP-1 beta.
Target Name	CCL2 / MCP1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	50 µl
Precision	CV:
Alternate Names	MCP1; Monocyte chemotactic and activating factor; MCAF; Monocyte chemotactic protein 1; Monocyte secretory protein JE; HSMCR30; Small-inducible cytokine A2; HC11; SMC-CF; GDCF-2; SCYA2; C-C motif

Application Instructions

Assay Time 4.5 hours

Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CCL2

Gene Full Name chemokine (C-C motif) ligand 2

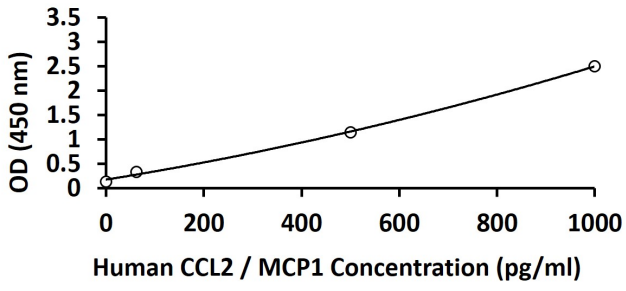
Background This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Chemokines are a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of N-terminal cysteine residues 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]

Function 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. [UniProt]

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PTM Processing at the N-terminus can regulate receptor and target cell selectivity. Deletion of the N-terminal residue converts it from an activator of basophil to an eosinophil chemoattractant.



ARG83336 Human CCL2 / MCP1 ELISA Kit standard curve image

ARG83336 Human CCL2 / MCP1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.