ARG82819
Monkey CCL2 / MCP1 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82819 Monkey CCL2 / MCP1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Monkey CCL2 / MCP1 in serum, plasma and cell culture supernatants.
Tested Reactivity	Mk
Tested Application	ELISA
Specificity	Cross-Reactivity: Not react with ApoAI, BMP1, BMP2, BMP3, BMP4, BMP5, BMP7, CCL3, CCL4, CRP, FGF acidic, HGF, HSP27, IL1 alpha, IL1 beta, IL1RA, IL1 RI, IL2, IL5, IL6, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IFN gamma, IGF1, MMP2, MMP9, PDGF, PLA2G7, serpin E1, sIL2R, sIL6R, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TNF alpha, TNF RI, TNF RII and VEGF.
Target Name	CCL2 / MCP1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	12.5 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	25 - 1600 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6.0% Inter-Assay CV: 9.0%
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 chemokine 2; Monocyte chemoattractant protein 1; MCP-1

Application Instructions

Assay Time	~ 3 hours

Properties

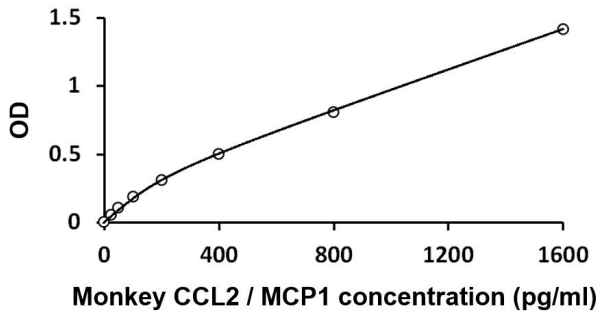
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory 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	Acts as a ligand for C-C chemokine receptor CCR2 (PubMed:9837883, PubMed:10587439, PubMed:10529171). Signals through binding and activation of CCR2 and induces a strong chemotactic response and mobilization of intracellular calcium ions (PubMed:9837883, PubMed:10587439). Exhibits a chemotactic activity for monocytes and basophils but not neutrophils or eosinophils (PubMed:8627182, PubMed:9792674, PubMed:8195247). May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis (PubMed:8107690). [UniProt]
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. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG82819 Monkey CCL2 / MCP1 ELISA Kit standard curve image

ARG82819 Monkey CCL2 / MCP1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.