



Human monocyte chemotactic protein 1/monocyte chemotactic and activating factor,MCP-1/MCAF ELISA kit

Product Code	CSB-E04655h
Abbreviation	CCL2
Protein Biological Process 1	Cytokine
Uniprot No.	P13500
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, urine, saliva, cerebrospinal fluid (CSF), ascitic fluid, cell culture supernates, tissue homogenates.
Detection Range	6.25 pg/ml-400 pg/ml.
Sensitivity	1.56 pg/ml.
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	CCL2
Tag Info	quantitative
Protein Description	Sandwich

Description

The human CCL2 ELISA Kit quantitates human CCL2 levels in multiple samples, including serum, plasma, urine, saliva, cerebrospinal fluid (CSF), ascitic fluid, cell culture supernates, and tissue homogenates. CCL2, also called MCP-1, is inducibly expressed when exposed to inflammatory stimuli, such as IL-1, IL-4, IL-6, and TNF α . CCL2-CCR2 signaling activates several downstream signaling cascades, including JAK2/STAT3, MAPK, and PI3K pathways. CCL2-CCR2 interaction is involved in neurogenesis, neurotransmission, neuroinflammation, neurodegeneration, neuroregeneration, and other neurobiological processes. CCL2 is implicated in the pathogenesis of diseases, including congestive heart failure, multiple sclerosis, and atherosclerosis. Besides, CCL2 has been found in many types of cancer, such as breast, prostate, and pancreatic cancer, where CCL2 not only recruits immune cells to the tumor microenvironment but also acts on tumor cells to regulate



angiogenesis, metastasis, and tumor cell proliferation.

This kit employs the sandwich-ELISA mechanism in conjugation with CCL2 antibody-CCL2 antigen-specific binding as well as HRP-TMB chromogenic reaction to measure the concentration of CCL2 in the samples. The kit is characterized by high sensitivity, strong specificity, good linearity, high recovery, and a precision of less than 10%.

Product Precision

Linearity

Recovery

Msds

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