



Human C-C motif chemokine 14(CCL14) ELISA kit

Product Code	CSB-EL004777HU
Abbreviation	CCL14
Target Name	chemokine (C-C motif) ligand 14
Uniprot No.	Q16627
Alias	CC-1, CC-3, CKb1, FLJ16015, HCC-1, HCC-3, MCIF, NCC-2, NCC2, SCYA14, SCYL2, SY14, chemokine CC-1 chemokine CC-3 small inducible cytokine subfamily A (Cys-Cys), member 14
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/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	CCL14
Tag Info	quantitative
Protein Description	Sandwich

Description

This human CCL14 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human CCL14 in multiple samples, including serum, plasma, or tissue homogenates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the CCL14 levels in the sample and is measured at 450 nm through a microplate reader.

CCL14, also known as HCC-1, is found in high concentrations in blood plasma and acts as an inflammatory chemokine after N-terminus cleavage. It promotes the chemotaxis of monocytes, eosinophils, and T lymphoblasts. CCL14 specifically binds to CCR1, CCR3, and CCR5 to exert biological effects. CCL14 plays a dual role in the occurrence and development of cancer. A study showed that CCL14 inhibited the proliferation and invasion of colon cancer cells by impeding the formation of M2-like tumor-associated macrophages (TAMs). CCL14 was downregulated in several human cancers, including hepatocellular



carcinoma (HCC). CCL14 expression in HCC tissues correlated with prognosis. Low CCL14 expression is linked to poorer overall survival, disease-specific survival, progression-free survival, and relapse-free survival in multiple cohorts of HCC patients, particularly at early disease stages.

Target Details

This gene, chemokine (C-C motif) ligand 14, is one of several CC cytokine genes clustered on 17q11.2. The CC cytokines are secreted proteins characterized by two adjacent cysteines. The cytokine encoded by this gene induces changes in intracellular calcium concentration and enzyme release in monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Read-through transcripts are also expressed that include exons from the upstream cytokine gene, chemokine (C-C motif) ligand 15, and are represented as GeneID: 348249.

Msds

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