



Human C-C motif chemokine 7 (CCL7/MCP3/SCYA6/SCYA7) ELISA kit

Product Code	CSB-E17377h
Protein Biological Process 2	chemokine
Abbreviation	CCL7
Protein Biological Process 1	Immunity
Target Name	chemokine (C-C motif) ligand 7
Uniprot No.	P80098
Alias	FIC, MARC, MCP-3, MCP3, MGC138463, MGC138465, NC28, SCYA6, SCYA7, monocyte chemoattractant protein 3 monocyte chemotactic protein 3 small inducible cytokine A7 (monocyte chemotactic protein 3)
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma,tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	CCL7
Tag Info	quantitative
Protein Description	Sandwich

Description

The product CSB-E17377h is a sandwich ELISA kit developed to measure concentrations of human CCL7 in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of CCL7 in samples. The color intensity is measured at 450 nm via a microplate reader.



CCL7 is a potent chemoattractant for various leukocytes, including monocytes, eosinophils, basophils, dendritic cells (DCs), NK cells, and activated T lymphocytes. As a chemotactic factor, CCL7 recruits a leukocyte subtype to infected tissues to address pathologic invasion and fine-tune the immune response by binding to its receptors including CCR1, CCR2, CCR3, CCR5, and CCR10. CCL7 plays an important role in various pathologies, including cancers, auto-immune diseases, and chronic inflammation. It promotes tumor progression by supporting the formation of the tumor microenvironment and facilitating tumor invasion and metastasis.

Target Details

This gene encodes monocyte chemotactic protein 3, a secreted chemokine which attracts macrophages during inflammation and metastasis. It is a member of the C-C subfamily of chemokines which are characterized by having two adjacent cysteine residues. The protein is an in vivo substrate of matrix metalloproteinase 2, an enzyme which degrades components of the extracellular matrix. This gene is part of a cluster of C-C chemokine family members on chromosome 17q.

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