Chemokine C C Motif Ligand 8 (CCL 8) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Chemokine C C motif ligand 8 (CCL 8), ELISA Kit
Full Product Name	Human Chemokine C C motif ligand 8 ELISA Kit
Product Gene Name	CCL 8 elisa kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	250- 5000pg/mL
Sensitivity	1.0pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	11,246 Da
OMIM	602283
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Intended Uses	This CCL8 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CCL8. This ELISA kit for research use only, not for therapeutic applications
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Product Categories/Family for CCL 8 elisa kit	Immunology
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CCL 8 elisa kit	**Principle of the Assay:** CCL8 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CCL8 antibody and an CCL8-HRP conjugate. The assay sample and buffer are incubated together with CCL8-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CCL8 concentration since CCL8 from samples and CCL8-HRP conjugate compete for the anti-CCL8 antibody binding site. Since the number of sites is limited, as more sites are occupied by CCL8 from the sample, fewer sites are left to bind CCL8-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CCL8 concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of CCL 8 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CCL 8 purchase	MBS750141 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Chemokine C C motif ligand 8 (CCL 8) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CCL 8. The ELISA analytical biochemical technique of the MBS750141 kit is based on CCL 8 antibody-CCL 8 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CCL 8 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CCL 8. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCL 8. It may not necessarily be applicable to this product.

NCBI GI #	116496843
NCBI GeneID	6355
NCBI Accession #	AAI26243.1
UniProt Secondary Accession #	P78388; A0AV77
UniProt Related Accession #	P80075
NCBI Official Full Name	Chemokine (C-C motif) ligand 8
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 8
NCBI Official Symbol	CCL8
NCBI Official Synonym Symbols	HC14; MCP2; MCP-2; SCYA8; SCYA10
UniProt Protein Name	C-C motif chemokine 8
UniProt Synonym Protein Names	HC14; Monocyte chemoattractant protein 2; Monocyte chemotactic protein 2; MCP-2; Small-inducible cytokine A8Cleaved into the following chain:MCP-2(6-76)
UniProt Gene Name	CCL8
UniProt Synonym Gene Names	MCP2; SCYA10; SCYA8; MCP-2
UniProt Entry Name	CCL8_HUMAN
NCBI Protein Information	C-C motif chemokine 8; small-inducible cytokine A8; monocyte chemotactic protein 2; monocyte chemoattractant protein 2; small inducible cytokine subfamily A (Cys-Cys), member 8 (monocyte chemotactic protein 2)
NCBI Summary for CCL 8	This antimicrobial gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form 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, lymphocytes, basophils and eosinophils. By recruiting leukocytes to sites of inflammation this cytokine may contribute to tumor-associated leukocyte infiltration and to the antiviral state against HIV infection. [provided by RefSeq, Sep 2014]

UniProt Comments for CCL 8	CCL8: Chemotactic factor that attracts monocytes, lymphocytes, basophils and eosinophils. May play a role in neoplasia and inflammatory host responses. This protein can bind heparin. The processed form MCP-2(6-76) does not show monocyte chemotactic activity, but inhibits the chemotactic effect most predominantly of CCL7, and also of CCL2 and CCL5 and CCL8. Belongs to the intercrine beta (chemokine CC) family. Protein type: Secreted, signal peptide; Secreted; Chemokine; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: extracellular space Molecular Function: heparin binding; chemokine activity; phospholipase activator activity; protein kinase activity Biological Process: positive regulation of catalytic activity; cellular calcium ion homeostasis; exocytosis; cell-cell signaling; calcium ion transport; response to virus; immune response; inflammatory response; chemotaxis; signal transduction; protein amino acid phosphorylation
Research Articles on CCL 8	**1.** CCL8 is an antimicrobial protein with bacteriocidal activity against E. coli.
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