

Human MDC ELISA Kit | MDC elisa kit

MDC (Human) OmniKine ELISA Kit

CATALOG #
AAA315788

REACTIVITY
Human

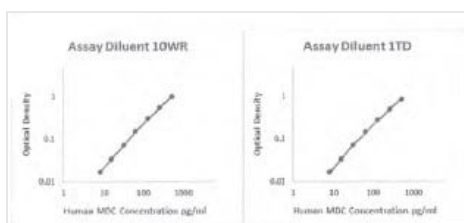
PRODUCT SYNONYMS

MDC; MDC (Human) OmniKine ELISA Kit; C-C motif chemokine 22; CC chemokine STCP-1; Macrophage-derived chemokine; Small-inducible cytokine A22; Stimulated T-cell chemotactic protein 1; MDC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The OmniKine™ Human MDC ELISA is capable of recognizing both recombinant and naturally produced Human MDC proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Form/Format	12 x 8-Well Microstrips
Sequence Length	93
Assay Type	Quantitative Sandwich
Samples	Supernatants, Sera and Plasma
Sensitivity	8-500 pg/ml
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MDC elisa kit	Background: C-C motif chemokine 22 (CCL22), also known as MDC, is a 93 amino acid secreted protein that is highly expressed in macrophage, monocyte-derived dendritic cells, and thymus. It is also found in the lymph node, appendix, activated monocytes, resting and activated macrophages. Lower expression of CCL22 is found in the lung and spleen, and very weak expression is found in the small intestine. It is also expressed in a mature subset of Langerhans' cells (CD1a+ and CD83+) in the lymph node as well as in Langerhans' cell histiocytosis but not in dermatopathic lymphadenopathy. Expression of CCL22 is also found in atopic dermatitis, allergic contact dermatitis skin, and psoriasis, in both the epidermis and dermis. CCL22 may play a role in the trafficking of activated/effector T-lymphocytes to inflammatory sites and other aspects of activated T-lymphocyte physiology. It is a chemotactic factor for monocytes, dendritic cells and natural killer cells; it is a mild chemoattractant for primary activated T-lymphocytes and a potent chemoattractant for chronically activated T-lymphocytes but has no chemoattractant activity for neutrophils, eosinophils, and resting T-lymphocytes. CCL22 Binds to CCR4. Its processed forms MDC (3-69), MDC (5-69) and MDC (7-69) seem not be active. The N-terminal processed forms MDC (3-69), MDC (5-69) and MDC (7-69) are produced by proteolytic cleavage after secretion from monocyte derived dendrocytes. Principle of the Assay: The OmniKine? Human MDC ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human MDC concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human MDC while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22538804
NCBI GeneID	6367
NCBI Accession #	NP_002981.2
NCBI GenBank Nucleotide #	NM_002990.4
UniProt Accession #	O00626; A0N0Q6; B2R4W2
Molecular Weight	10,625 Da
NCBI Official Full Name	C-C motif chemokine 22
NCBI Official Synonym Full Names	C-C motif chemokine ligand 22
NCBI Official Symbol	CCL22
NCBI Official Synonym Symbols	MDC; ABCD-1; SCYA22; STCP-1; DC/B-CK; A-152E5.1
NCBI Protein Information	C-C motif chemokine 22
UniProt Protein Name	C-C motif chemokine 22
UniProt Gene Name	CCL22
UniProt Synonym Gene Names	MDC; SCYA22

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

