

**MDC/CCL22**  
**Catalog # PVGS1119****Specification**

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**MDC/CCL22 - Product Information**

Primary Accession [O88430](#)  
**Species**  
Mouse

**Sequence**  
Gly25-Ser92

**Purity**  
> 97% as analyzed by SDS-PAGE<br>> 97% as analyzed by HPLC

**Endotoxin Level**  
< 1 EU/ µg of protein by LAL method

**Biological Activity**  
Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human activated lymphocytes is in a concentration range of 10.0-100.0 ng/ml.

**Expression System**  
E. coli

**Theoretical Molecular Weight**  
7.8 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

**MDC/CCL22 - Additional Information**

**Gene ID** 20299

**Other Names**  
C-C motif chemokine 22, Activated B and dendritic cell-derived, CC chemokine ABCD-1, Small-inducible cytokine A22, Ccl22, Abcd1, Scya22

**Target Background**

Macrophage-Derived/CCL22 Chemokine (MDC) , also known as stimulated T cell chemotactic protein (STCP1), is a CC chemokine initially isolated from clones of monocytederived macrophages. CCL22 is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. CCL22 shows chemotactic activity for natural killer cells, chronically activated T lymphocytes, monocytes and dendritic cells. CCL22 has mild chemotactic activity for primary activated T lymphocytes and no chemoattractant activity for neutrophils, eosinophils or resting T lymphocytes. CCL22 may also be involved in certain aspects of activated T lymphocyte physiology, such as trafficking activated T lymphocytes to inflammatory sites. CCL22 interacts with the cell surface chemokine receptor CCR4.

**MDC/CCL22 - Protein Information**

**Name** Ccl22

**Synonyms** Abcd1, Scya22

**Function**

Chemotactic for activated T-lymphocytes. May play an important role in the collaboration of dendritic cells and B- lymphocytes with T-cells in immune responses.

**Cellular Location**

Secreted.

**Tissue Location**

Expressed by activated splenic B-lymphocytes and dendritic cells. Low expression in lung, thymocytes, lymph node, and unstimulated splenic cells

**MDC/CCL22 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MDC/CCL22 - Images**