Active Recombinant Mouse Ccl20 Protein

Cat. No. Ccl20-2032M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse chemokine (C-C motif) ligand 20 (Ccl20), transcript variant 2 without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Acts as a ligand for C-C chemokine receptor CCR6. Signals through binding and activation of CCR6 and induces a strong chemotactic response and mobilization of intracellular calcium ions. The ligand-receptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector/memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and autoimmune diseases. CCL20 acts as a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes. Involved in the recruitment of both the proinflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation. Required for optimal migration of thymic natural regulatory T cells (nTregs) and DN1 early thymocyte progenitor cells. Positively regulates sperm motility and chemotaxis via its binding to CCR6 which triggers Ca2+ mobilization in the sperm which is important for its motility. May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells.
Bio-activity	Determined by its ability to chemoattract murine CCR6 transfected HEK/293 cells

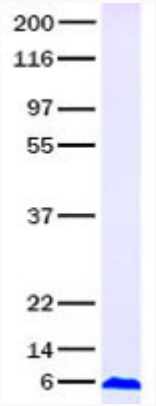
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	using a concentration range of 0.1-10.0 ng/mL.
Molecular Mass	7.9 kDa
AA Sequence	ASNYDCCLSYIQTPLPSRAIVGFTRQMADEACDINAIIFHTKKRKSVCADPKQNWVKR AVNLLSLRVKKM
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	LyopH ilized from a 0.2 μM filtered solution of 20 mM pH ospH ate buffer, 100 mM NaCl, pH 7.2

GENE INFORMATION

Gene Name	Ccl20 chemokine (C-C motif) ligand 20 [Mus musculus (house mouse)]
Official Symbol	Ccl20
Synonyms	Ccl20; chemokine (C-C motif) ligand 20; MI; MIP; ST3; CKb4; LARC; ST38; Scya; MIP-3; MIP3A; MIP-3A; Scya20; exodus; MIP-3[a]; exodus-1; C-C motif chemokine 20; CC chemokine LARC; CC chemokine ST38; MIP-3-alpha; beta-chemokine exodus-1; liver and activation-regulated chemokine; macrophage inflammatory protein 3 alpha; small inducible cytokine subfamily A20; small-inducible cytokine A20

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Gene ID	20297
mRNA Refseq	NM_001159738
Protein Refseq	NP_001153210
UniProt ID	O89093
SDS-PAGE	

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