Active Recombinant Human CCL2, MIgG2a Fc-tagged

Cat. No. CCL2-381H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human CCL2 (NP_002973.1) (Gln24-Thr99) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO celL
Species	Human
Source	CHO
ProteinLength	24-99 a.a.
Description	This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Chemokines are a superfamilyof secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided intofour subfamilies based on the arrangement of N-terminal cysteine residues of the mature peptide. This chemokineis a member of the CC subfamily which is characterized by two adjacent cysteine residues. This cytokine displayschemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicatedin the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis andatherosclerosis. It binds to chemokine receptors CCR2 and CCR4.
Form	Lyophilized from 0.2μm-filtered solution in PBS.
Bio-activity	Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR2A.

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Molecular Mass	35 KDa (monomer)
AA Sequence	Gln24-Thr99
Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="" test.="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	CCL2 chemokine (C-C motif) ligand 2 [Homo sapiens]
Official Symbol	CCL2
Synonyms	CCL2; chemokine (C-C motif) ligand 2; SCYA2, small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig je); C-C motif chemokine 2; GDCF 2; HC11; MCAF; MCP 1; MCP1; MGC9434; monocyte chemoattractant protein 1; monocyte chemotactic and activating factor; monocyte chemotactic protein 1; homologous to mouse Sig je; monocyte secretory protein JE; small inducible cytokine subfamily A (Cys Cys); member 2; SMC CF; small-inducible cytokine A2; monocyte chemoattractant protein-1; small inducible cytokine subfamily A (Cys-Cys), member 2; small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je); MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30;

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Gene ID	6347
mRNA Refseq	NM_002982
Protein Refseq	NP_002973
UniProt ID	P13500
Chromosome Location	17q11.2-q21.1
Pathway	Activation of Genes by ATF4, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem;
Function	CCR2 chemokine receptor binding; CCR2 chemokine receptor binding; G-protein coupled receptor binding; chemokine activity; heparin binding; protein kinase activity; receptor binding;

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