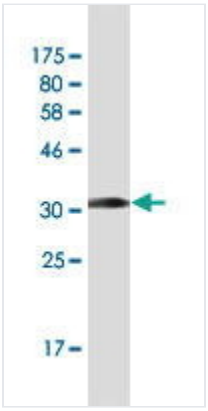
CCL2 Antibody – Mouse Monoclonal

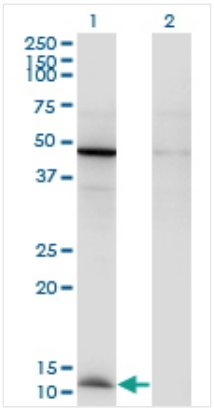
PRODUCT OVERVIEW

Product Name	CCL2, Monoclonal Antibody
Full Product Name	CCL2 (C-C Motif Chemokine 2, HC11, Monocyte Chemoattractant Protein 1, Monocyte Chemotactic and Activating Factor, MCAF, Monocyte Chemotactic Protein 1, MCP-1, Monocyte Secretory Protein JE, Small-inducible Cytokine A2, MCP1, SCYA2, MGC9434) APC
Product Gene Name	anti-CCL2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1F10
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CCL2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	11,025 Da
OMIM	158105
3D Structure	ModBase 3D Structure for P13500
Immunogen	Full-length recombinant corresponding to aa1-99 from human CCL2 (AAH09716) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MKVSAALLCLLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEICADPKQKWVQDSMDHLDKQTQTPKT
Conjugate	APC
Product Categories/Family for anti-CCL2 antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-CCL2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CCL2 antibody	Applications are based on unconjugated antibody.

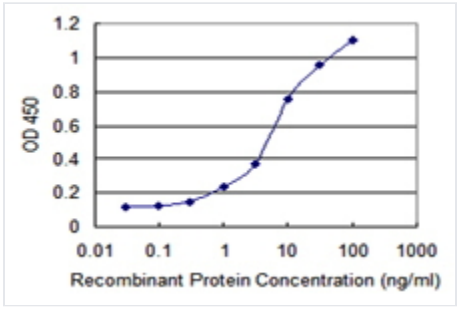
Related Product Information for anti-CCL2 antibody	This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The protein encoded by this gene is structurally related to the CXC subfamily of cytokines. Members of this subfamily are characterized by two cysteines separated by a single amino acid. This cytokine displays chemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4.
Other Notes	Small volumes of anti-CCL2 antibody 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 CCL2 purchase	MBS6135704 is an antibody targeting CCL2. Also known as CCL2 (C-C Motif Chemokine 2, HC11, Monocyte Chemoattractant Protein 1, Monocyte Chemotactic and Activating Factor, MCAF, Monocyte Chemotactic Protein 1, MCP-1, Monocyte Secretory Protein JE, Small-inducible Cytokine A2, MCP1, SCYA2, MGC9434) APC. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-CCL2 antibody
Western Blot detection against Immunogen (37kD).



Western Blot (WB) of anti-CCL2 antibody
Western Blot analysis of CCL2 expression in transfected 293T cell line by CCL2 monoclonal antibody. Lane 1: CCL2 transfected lysate (11kD). Lane 2: Non-transfected lysate.



Testing Data of anti-CCL2 antibody
Detection limit for recombinant GST tagged CCL2 is 0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCL2. It may not necessarily be applicable to this product.

NCBI GI #	16307254
NCBI GeneID	6347
NCBI Accession #	BC009716
NCBI Related Accession #	AAH09716
UniProt Primary Accession #	P13500
UniProt Secondary Accession #	Q9UDF3; B2R4V3
UniProt Related Accession #	P13500
NCBI Official Full Name	Homo sapiens chemokine (C-C motif) ligand 2, mRNA
NCBI Official Synonym Full Names	C-C motif chemokine ligand 2

NCBI Official Symbol	CCL2
NCBI Official Synonym Symbols	HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
UniProt Protein Name	C-C motif chemokine 2
UniProt Synonym Protein Names	HC11; Monocyte chemoattractant protein 1; Monocyte chemotactic and activating factor; MCAF; Monocyte chemotactic protein 1; MCP-1; Monocyte secretory protein JE; Small-inducible cytokine A2
Protein Family	C-C motif chemokine
UniProt Gene Name	CCL2
UniProt Synonym Gene Names	MCP1; SCYA2; MCAF; MCP-1
UniProt Entry Name	CCL2_HUMAN
NCBI Protein Information	C-C motif chemokine 2
NCBI Summary for CCL2	This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Chemokines are 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 and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4. [provided by RefSeq, Jul 2013]
UniProt Comments for CCL2	CCL2: Chemotactic factor that attracts monocytes and basophils but not neutrophils or eosinophils. Augments monocyte anti-tumor activity. Has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. Monomer or homodimer; in equilibrium. Binds to CCR2 and CCR4. Is tethered on endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. Belongs to the intercrine beta (chemokine CC) family. Protein type: Secreted; Secreted, signal peptide; Motility/polarity/chemotaxis; Chemokine Chromosomal Location of Human Ortholog: 17q11.2-q12 Cellular Component: extracellular space; rough endoplasmic reticulum; endocytic vesicle; perinuclear region of cytoplasm; dendrite; extracellular region; synapse; perikaryon; nerve terminal Molecular Function: heparin binding; chemokine activity; CCR2 chemokine receptor binding; receptor binding; protein kinase activity Biological Process: maternal process involved in pregnancy; protein amino acid phosphorylation; response to antibiotic; regulation of cell shape; monocyte chemotaxis; cell surface receptor linked signal transduction; transforming growth factor beta receptor signaling pathway; response to vitamin B3; negative regulation of neuron apoptosis; cellular homeostasis; cell adhesion; neutrophil chemotaxis; organ regeneration; JAK-STAT cascade; response to amino acid stimulus; positive regulation of tumor necrosis factor production; G-protein signaling, coupled to cyclic nucleotide second messenger; organ morphogenesis; response to ethanol; unfolded protein response, activation of signaling protein activity; response to bacterium; cellular response to insulin stimulus; response to mechanical stimulus; response to heat; positive regulation of endothelial cell proliferation; response to activity; response to progesterone stimulus; positive regulation of nitric-oxide synthase biosynthetic process; positive regulation of collagen biosynthetic process; signal transduction; chemotaxis; positive regulation of synaptic transmission; positive regulation of cellular extravasation; lipopolysaccharide-mediated signaling pathway; protein kinase B signaling cascade; response to wounding; response to gamma radiation; angiogenesis; inflammatory response; lymphocyte chemotaxis; aging; unfolded protein response; cytokine and chemokine mediated signaling pathway; MAPKKK cascade; cytoskeleton organization and biogenesis; viral genome replication; macrophage chemotaxis; humoral immune response; leukocyte migration during inflammatory response; cellular calcium ion homeostasis; G-protein coupled receptor protein signaling pathway; positive regulation of leukocyte mediated cytotoxicity; negative regulation of angiogenesis; cellular protein metabolic process; maternal process involved in parturition; response to hypoxia; positive regulation of T cell activation; vascular endothelial growth factor receptor signaling pathway; astrocyte cell migration Disease: Neural Tube Defects; Mycobacterium Tuberculosis, Susceptibility To; Human Immunodeficiency Virus Type 1, Susceptibility To

Research Articles on CCL2	**1.** CCL2 downregulation in South Asians may be an attempt to protect muscle against macrophage infiltration, and defects in fatty acid partitioning to muscle may lead to the disproportionate adiposity and adverse cardiometabolic profile in South Asians.
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