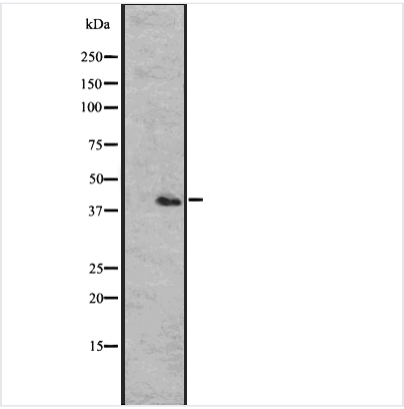
CCR2 Antibody – Rabbit Polyclonal

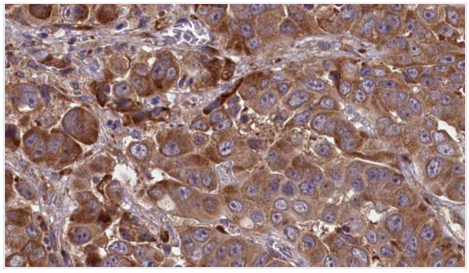
PRODUCT OVERVIEW

Product Name	CCR2, Polyclonal Antibody
Full Product Name	CCR2 Antibody
Product Gene Name	anti-CCR2 antibody
Product Synonym Names	C C chemokine receptor type 2; C C CKR 2; C-C chemokine receptor type 2; C-C CKR-2; CC chemokine receptor type 2; CC CKR 2; CC-CKR-2; CCCKR2; CCR 2; CCR-2; CCR1L; CCR2; CCR2_HUMAN; CCR2A; CCR2B; CCR5L; CD192; CD192 antigen; Chemokine C C motif receptor 2; Chemokine CC Motif Receptor 2; CKR 2; CKR2; CKR2A; CKR2B; CMKBR2; MCP 1 R; MCP-1-R; MCP1 RECEPTOR; MCP1R; Monocyte chemoattractant protein 1 receptor; Monocyte Chemotactic Protein 1 Receptor; Monocyte Chemotactic Protein 1 Receptor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	CCR2 antibody detects endogenous levels of total CCR2
Antibody/Peptide Pairs	CCR2 peptide (MBS9622942) is used for blocking the activity of CCR2 antibody (MBS9604225)
Molecular Weight	Observed: 42 kDa Predicted: 42 kDa
3D Structure	ModBase 3D Structure for P41597
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane
Tissue Specificity	Expressed by monocytes and IL2-activated NK cells.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CCR2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CCR2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-CCR2 antibody	Function: Receptor for the CCL2, CCL7 and CCL13 chemokines (PubMed:23408426). Receptor for the beta-defensin DEFB106A/DEFB106B (PubMed:23938203). Transduces a signal by increasing intracellular calcium ion levels (By similarity). Upon CCL2 ligation, mediates chemotaxis and migration induction through the activation of the PI3K cascade, the small G protein Rac and lamellipodium protrusion (Probable). Subunit Structure: Interacts with ARRB1 (PubMed:9501202). Interacts (via extracellular N-terminal region) with beta-defensin DEFB106A/DEFB106B; this interaction may preferentially require specific tyrosine sulfation on CCR2 (PubMed:23938203). Interacts with NUP85; the interaction is required for CCR2 clusters formation on the cell membrane and CCR2 signaling (PubMed:15995708, PubMed:25283965). Post-translational Modifications: N-glycosylated. Sulfation increases the affinity for both monomeric and dimeric CCL2 with stronger binding to the monomeric form. Binding of sulfated CCR2 to CCL2 promotes conversion of CCL2 from dimer to monomer. Similarity: Belongs to the G-protein coupled receptor 1 family.
Other Notes	Small volumes of anti-CCR2 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 CCR2 purchase	MBS9604225 is an antibody targeting CCR2. Also known as CCR2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CCR2 antibody
Western blot analysis of CCR2 expression in Jurkat cell lysate, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry (IHC) of anti-CCR2 antibody
MBS9604225 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCR2. It may not necessarily be applicable to this product.

NCBI GI #	183979980
NCBI GeneID	729230
NCBI Accession #	NP_001116513.2
UniProt Primary Accession #	P41597
UniProt Secondary Accession #	O95950; Q4VBL2; A0AVQ3; B2RMT0
UniProt Related Accession #	P41597
GenBank Nucleotide #	NM_001123041.2
NCBI Official Full Name	C-C chemokine receptor type 2 isoform A
NCBI Official Synonym Full Names	C-C motif chemokine receptor 2
NCBI Official Symbol	CCR2
NCBI Official Synonym Symbols	CKR2; CCR-2; CCR2A; CCR2B; CD192; CKR2A; CKR2B; CMKBR2; MCP-1-R; CC-CKR-2
UniProt Protein Name	C-C chemokine receptor type 2
UniProt Synonym Protein Names	Monocyte chemoattractant protein 1 receptor; MCP-1-R; CD_antigen: CD192

Protein Family	C-C chemokine receptor
UniProt Gene Name	CCR2
UniProt Synonym Gene Names	CMKBR2; C-C CKR-2; CC-CKR-2; CCR-2; CCR2; MCP-1-R
NCBI Protein Information	C-C chemokine receptor type 2
NCBI Summary for CCR2	The protein encoded by this gene is a receptor for monocyte chemoattractant protein-1, a chemokine which specifically mediates monocyte chemotaxis. Monocyte chemoattractant protein-1 is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis as well as in the inflammatory response against tumors. The encoded protein mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. This protein can also be a coreceptor with CD4 for HIV-1 infection. This gene is located in the chemokine receptor gene cluster region of chromosome 3. [provided by RefSeq, Aug 2017]
UniProt Comments for CCR2	Receptor for the CCL2, CCL7 and CCL13 chemokines (PubMed:23408426). Receptor for the beta-defensin DEFB106A/DEFB106B (PubMed:23938203). Transduces a signal by increasing intracellular calcium ion levels (). Upon CCL2 ligation, mediates chemotaxis and migration induction through the activation of the PI3K cascade, the small G protein Rac and lamellipodium protrusion (Probable).
Research Articles on CCR2	**1.** T cell-stimulated CLL cells actively recruited monocytes; recruitment critically depended on the C-C-motif-chemokine-receptor-2 axis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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