

**CCR2 Antibody (N-Terminus)  
Rabbit Polyclonal Antibody  
Catalog # ALS10462****Specification**

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**CCR2 Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	<a href="#">P41597</a>
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42kDa KDa

**CCR2 Antibody (N-Terminus) - Additional Information**

Gene ID 729230

**Other Names**

C-C chemokine receptor type 2, C-C CKR-2, CC-CKR-2, CCR-2, CCR2, Monocyte chemoattractant protein 1 receptor, MCP-1-R, CD192, CCR2, CMKBR2

**Target/Specificity**

Human CCR2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CCR2 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**CCR2 Antibody (N-Terminus) - Protein Information**

Name CCR2

Synonyms CMKBR2

**Function**

Key functional receptor for CCL2 but can also bind CCL7, and CCL12 (PubMed: [23408426](http://www.uniprot.org/citations/23408426), PubMed: [38157855](http://www.uniprot.org/citations/38157855), PubMed: [8048929](http://www.uniprot.org/citations/8048929), PubMed: [8146186](http://www.uniprot.org/citations/8146186)). Also transduces signaling mediated by CCL13 (PubMed: [38157855](http://www.uniprot.org/citations/38157855)). Its binding with CCL2 on monocytes and macrophages mediates chemotaxis and migration induction through the activation of the PI3K cascade, the

small G protein Rac and lamellipodium protrusion (PubMed:<a href="http://www.uniprot.org/citations/38157855" target="\_blank">38157855</a>). Also acts as a receptor for the beta-defensin DEFB106A/DEFB106B (PubMed:<a href="http://www.uniprot.org/citations/23938203" target="\_blank">23938203</a>). Regulates the expression of T-cell inflammatory cytokines and T-cell differentiation, promoting the differentiation of T-cells into T-helper 17 cells (Th17) during inflammation (By similarity). Facilitates the export of mature thymocytes by enhancing directional movement of thymocytes to sphingosine-1-phosphate stimulation and up-regulation of S1P1R expression; signals through the JAK-STAT pathway to regulate FOXO1 activity leading to an increased expression of S1P1R (By similarity). Plays an important role in mediating peripheral nerve injury-induced neuropathic pain (By similarity). Increases NMDA-mediated synaptic transmission in both dopamine D1 and D2 receptor-containing neurons, which may be caused by MAPK/ERK-dependent phosphorylation of GRIN2B/NMDAR2B (By similarity). Mediates the recruitment of macrophages and monocytes to the injury site following brain injury (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein. Note=The chemoattractant receptors are distributed throughout the cell surface; after stimulation with a ligand, such as CCL2, they are rapidly recruited into microdomain clusters at the cell membrane.

#### **Tissue Location**

Expressed by monocytes and IL2-activated NK cells (PubMed:9058802). Abundantly expressed on CD14+/CD16- monocytes and weakly on CD14+/CD16+ monocytes, type 2 dendritic cells (DCs) and plasmacytoid DCs (at protein level) (PubMed:38157855)

#### **Volume**

Array

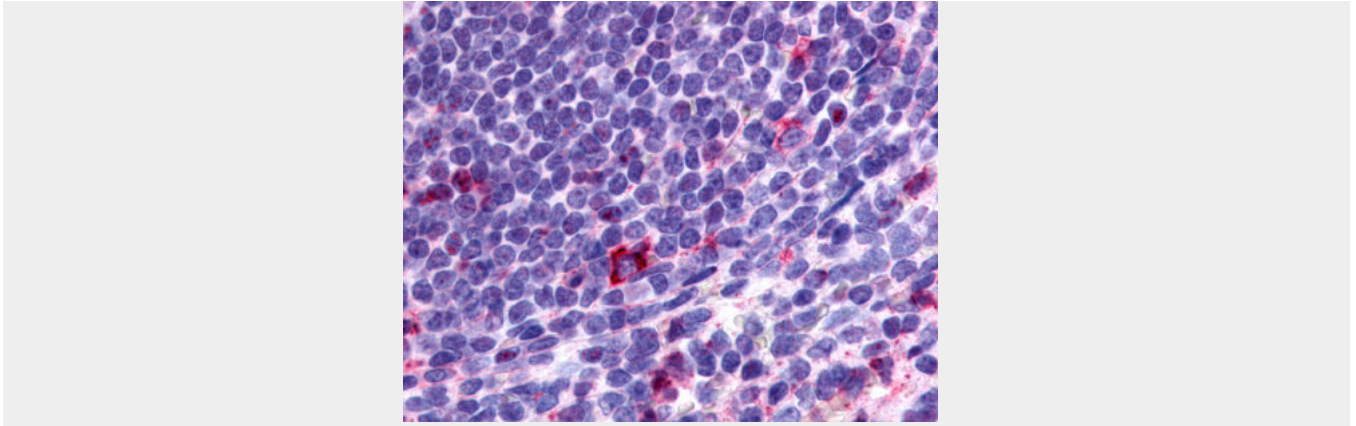
#### **CCR2 Antibody (N-Terminus) - Protocols**

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](#)

#### **CCR2 Antibody (N-Terminus) - Images**





Anti-CCR2 antibody ALS10462 IHC of human spleen, lymphocytes.

### **CCR2 Antibody (N-Terminus) - Background**

Receptor for the CCL2, CCL7 and CCL13 chemokines. Transduces a signal by increasing intracellular calcium ion levels. Alternative coreceptor with CD4 for HIV-1 infection.

### **CCR2 Antibody (N-Terminus) - References**

- Charo I.F., et al. Proc. Natl. Acad. Sci. U.S.A. 91:2752-2756(1994).  
Yamagami S., et al. Biochem. Biophys. Res. Commun. 202:1156-1162(1994).  
Wong L.-M., et al. J. Biol. Chem. 272:1038-1045(1997).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Muzny D.M., et al. Nature 440:1194-1198(2006).

### **CCR2 Antibody (N-Terminus) - Citations**

- [Leukocyte iNOS is required for inflammation and pathological remodeling in ischemic heart failure.](#)