

**CCR2 Rabbit mAb**  
Catalog # AP77399**Specification**

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**CCR2 Rabbit mAb - Product Information**

Application	IHC
Primary Accession	<a href="#">P41597</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	41915

**CCR2 Rabbit mAb - Additional Information**

Gene ID 729230

**Other Names**  
CCR2**Dilution**  
IHC~~1/50-1/100**Format**  
Liquid**CCR2 Rabbit mAb - 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: [38157855](http://www.uniprot.org/citations/38157855)). Also acts as a receptor for the beta-defensin DEFB106A/DEFB106B (PubMed: [23938203](http://www.uniprot.org/citations/23938203)). 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)

### **CCR2 Rabbit mAb - 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 Rabbit mAb - Images**

