

#### Anti-CCR2 / CD192 Reference Antibody (plozalizumab) Recombinant Antibody Catalog # APR10318

## **Specification**

# Anti-CCR2 / CD192 Reference Antibody (plozalizumab) - Product Information

Application Primary Accession Reactivity Clonality Isotype Calculated MW FC, Kinetics, Animal Model P41597 Rat, Human, Mouse Monoclonal IgG1 146.08 KDa

## Anti-CCR2 / CD192 Reference Antibody (plozalizumab) - Additional Information

Target/Specificity CCR2 / CD192

**Endotoxin** < 0.001EU/ μg,determined by LAL method.

Conjugation Unconjugated

Expression system CHO Cell

Format

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

## Anti-CCR2 / CD192 Reference Antibody (plozalizumab) - Protein Information

Name CCR2

## Synonyms CMKBR2

Function

Key functional receptor for CCL2 but can also bind CCL7, and CCL12 (PubMed:<a href="http://www.uniprot.org/citations/23408426" target="\_blank">23408426</a>, PubMed:<a href="http://www.uniprot.org/citations/38157855" target="\_blank">38157855</a>, PubMed:<a href="http://www.uniprot.org/citations/8048929" target="\_blank">8048929</a>, PubMed:<a href="http://www.uniprot.org/citations/8146186" target="\_blank">8146186</a>). Also transduces signaling mediated by CCL13 (PubMed:<a href="http://www.uniprot.org/citations/38157855" target="\_blank">38157855</a>). 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)

## Anti-CCR2 / CD192 Reference Antibody (plozalizumab) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## Anti-CCR2 / CD192 Reference Antibody (plozalizumab) - Images





Anti-CCR2 / CD192 Reference Antibody (plozalizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-CCR2 / CD192 Reference Antibody (plozalizumab)is more than 99.45% , determined by SEC-HPLC.