



## Mouse anti CCR2 Monoclonal Antibody

Alternative Name(s): CCR2, CCR2A, CCR2B, CD192, CKR2

### Order Information

- **Description:** CCR2
- **Catalogue:** 603-850
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 1D9
- **Application:** IHC(P), WB
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A synthetic peptide derived from N-terminus of the extracellular domain of human CCR2 protein.

### **BACKGROUND**

CCR2, or C-C Motif Chemokine receptor type 2, encodes two isoforms (CCR2A and CCR2B) of a receptor for monocyte chemoattractant protein-1 (MCP1, MCP-3 and MCP4), 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 receptors encoded by this gene mediate agonistdependent calcium mobilization and inhibition of adenylyl cyclase. This gene is located in the chemokine receptor gene cluster region. The two alternatively spliced transcript variants are expressed widely in variety of tissues, including blood, brain, heart, kidney, liver, lung, ovary, pancreas, spinal cord, spleen and thymus

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human CCR2 protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1  $\mu\text{g/ml}$
- ELISA: 0.01-0.1  $\mu\text{g/ml}$
- Immunoprecipitation: 2-5  $\mu\text{g/ml}$
- IHC: 2-10  $\mu\text{g/ml}$
- Flow cytometry: Not tested
- Molecular Weight: 50.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)

**DATA ATTACHMENTS**

**MW (kDa)**

**100kDa-**

**50 kDa--**

**37 kDa--**

**25kDa-**



Western Blot: The whole lysate derived from Jurkat (20 ug/lane) immunoblotted by Mouse anti-CCR2 (Cat# 603-850) at 1:500. Observed a major immunoreactive band at molecular weight ~50 kDa.

**REFERENCES**

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