

## PRODUCT INFORMATION

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| <b>Tag</b>                              | C-Flag Tag   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Target</b>                           | CCR2   |
| <b>Synonyms</b>                         | CC-CKR-2; CCR-2; CCR2A; CCR2B; CD192; CKR2; CKR2A; CKR2B; CMKBR2; MCP-1-R  |
| <b>Description</b>                      | Human CCR2 full length protein-synthetic nanodisc  |
| <b>Uniprot ID</b>                       | P41597   |
| <b>Protein Families</b>                 | Druggable Genome, Transmembrane  |
| <b>Protein Pathways</b>                 | Chemokine signaling pathway, Cytokine-cytokine receptor interaction  |
| <b>Molecular Weight</b>                 | The human full length CCR2 protein has a MW of 41.9 kDa  |
| <b>Delivery</b>                         | In Stock   |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.   |
| <b>Sterility</b>                        | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.  |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.  |
| <b>Background</b>                       | The protein 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. |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Unconjugated   |



### ELISA assay to evaluate CCR2-Nanodisc 0.2 $\mu$ g Human CCR2-Nanodisc per well

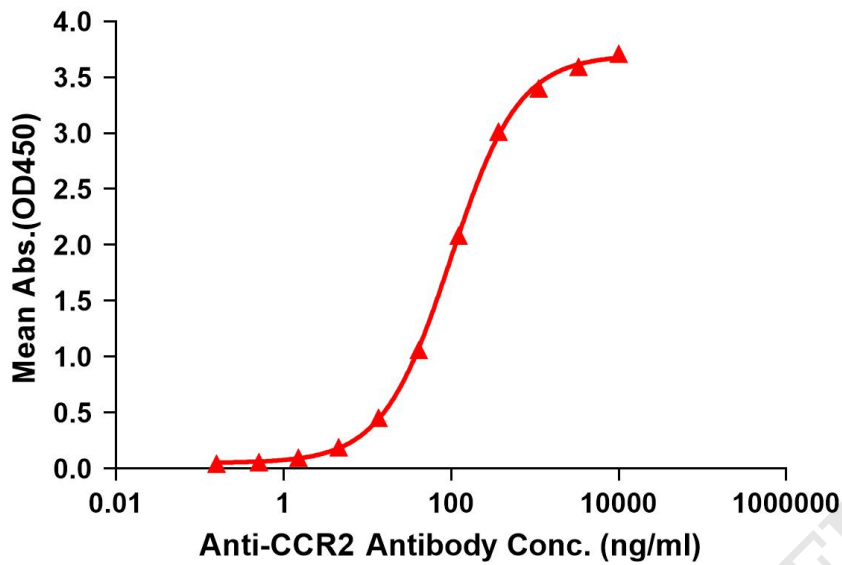


Figure 1. Elisa plates were pre-coated with Flag Tag CCR2-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-CCR2 monoclonal antibody (DMC100447) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CCR2 monoclonal antibody binding with CCR2-Nanodisc is 99.19ng/ml.

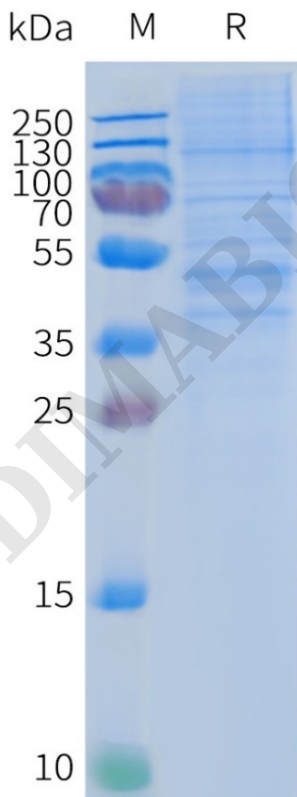


Figure 2. Human CCR2-Nanodisc, Flag Tag on SDS-PAGE





Figure 3. WB analysis of Human CCR2-Nanodisc with anti-CCR2 monoclonal antibody (BME100087), followed by Goat Anti-Human IgG HRP at 1/5000 dilution

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