

PRODUCT INFORMATION

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| Tag | C-Flag Tag |
| Target | CCR2 |
| Synonyms | CC-CKR-2; CCR-2; CCR2A; CCR2B; CD192; CKR2; CKR2A; CKR2B; CMKBR2; MCP-1-R |
| Description | Human CCR2 full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | P41597 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, Transmembrane |
| Protein Pathways | Chemokine signaling pathway, Cytokine-cytokine receptor interaction |
| Molecular Weight | The human full length CCR2 protein has a MW of 41.9 kDa |
| Formulation & Reconstitution | 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 of reconstitution. |
| Storage&Shipping | 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. |
| Background | 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. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate CCR2-Nanodisc
0.2 μ g Human CCR2-Nanodisc per well

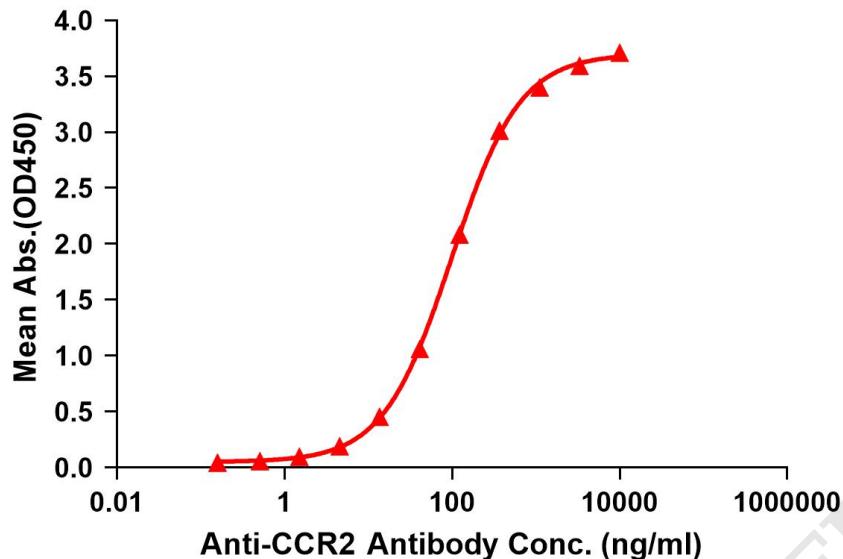


Figure 1. Elisa plates were pre-coated with Flag Tag CCR2-Nanodisc (0.2 μ g/per well). Serial diluted anti-CCR2 monoclonal antibody (DMC100447) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CCR2 monoclonal antibody binding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

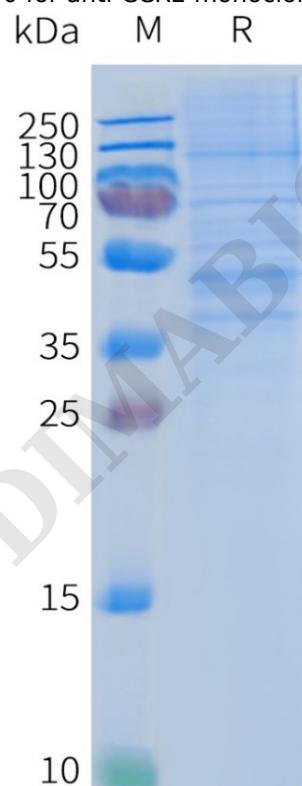


Figure 2. Human CCR2-Nanodisc, Flag Tag on SDS-PAGE





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

