

PRODUCT INFORMATION

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| Tag | C-Flag Tag |
| Target | CXCR2 |
| Synonyms | CD182; CDw128b; CMKAR2; IL8R2; IL8RA; IL8RB |
| Description | Human CXCR2 full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | P25025 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection |
| Molecular Weight | The human full length CXCR2 protein has a MW of 40.8 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 member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate CXCR2-Nanodisc
0.2µg Human CXCR2-Nanodisc per well

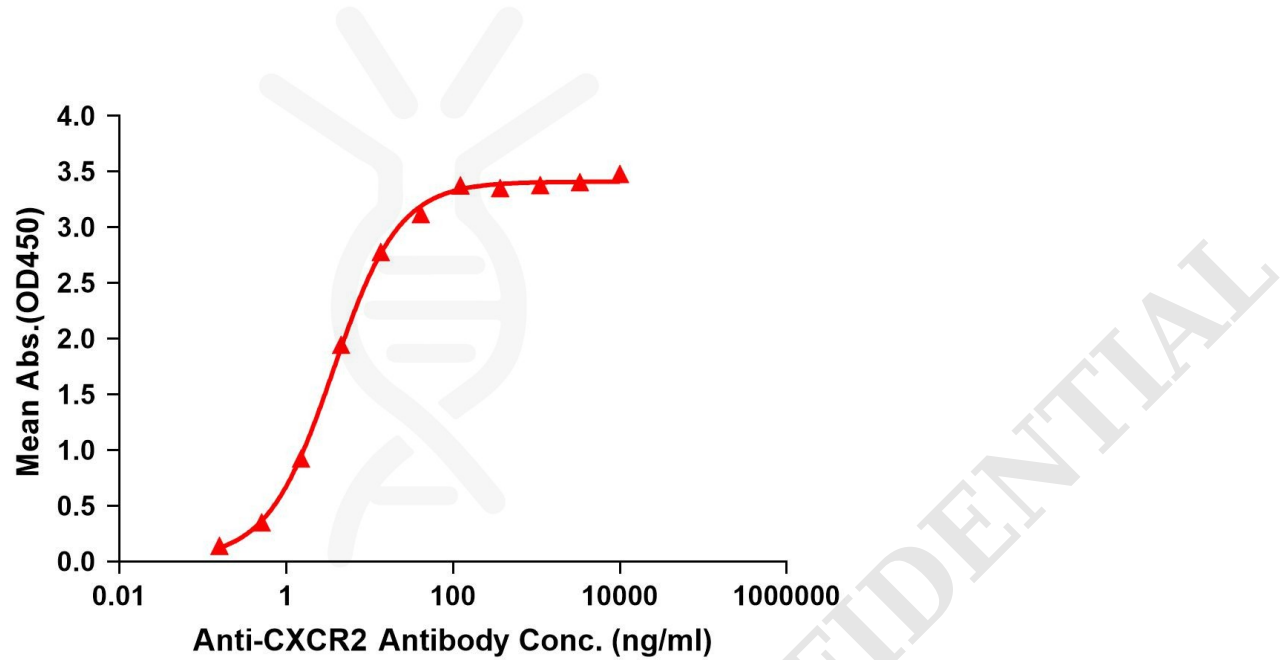


Figure 1. Elisa plates were pre-coated with Flag Tag CXCR2-Nanodisc (0.2µg/per well). Serial diluted anti-CXCR2 monoclonal antibody (DMC100681) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CXCR2 monoclonal antibody binding with CXCR2-Nanodisc is 3.677ng/ml.

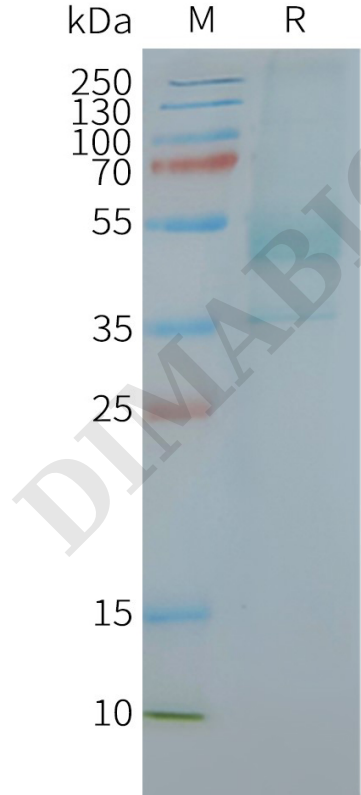


Figure 2. Human CXCR2-Nanodisc, Flag Tag on SDS-PAGE

