

HUMAN CCR9 FULL LENGTH PROTEIN

Cat.#: 11042

Product Name: Human CCR9 Full Length Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CC-CKR-9; CDW199; GPR-9-6; GPR28

Target: CCR9

UNIPROT ID: P51686

Description: Human CCR9 full length protein-synthetic nanodisc

Background: The protein is a G protein-coupled receptor with seven transmembrane domains that belongs to the beta chemokine receptor family. Chemokines and their receptors are key regulators of thymocyte migration and maturation in normal and inflammation conditions. This gene is differentially expressed in T lymphocytes of the small intestine and colon, and its interaction with chemokine 25 contributes to intestinal intra-epithelial lymphocyte homing to the small intestine. This suggests a role for this gene in directing immune responses to different segments of the gastrointestinal tract. This gene and its exclusive ligand, chemokine 25, are overexpressed in a variety of malignant tumors and are closely associated with tumor proliferation, apoptosis, invasion, migration and drug resistance. This gene maps to the chemokine receptor gene cluster.

Species/Host: HEK293

Molecular Weight: The human full length CCR9 protein has a MW of 42.0 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.

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.

ELISA assay to evaluate CCR9-Nanodisc
0.2µg Human CCR9-Nanodisc per well

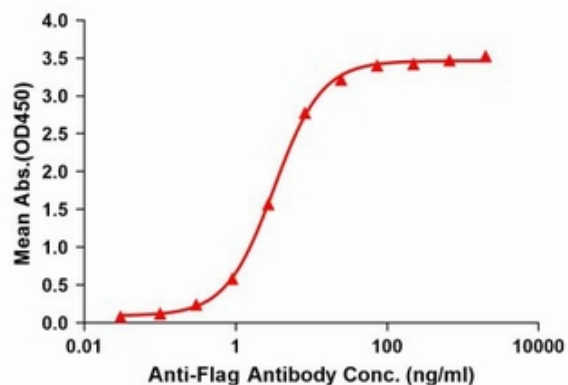


Figure1. Elisa plates were pre-coated with Flag Tag CCR9-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CCR9-Nanodisc is 3.205ng/ml.



Figure2. Human CCR9-Nanodisc, Flag Tag on SDS-PAGE