

PRODUCT INFORMATION

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| Tag | C-Flag Tag |
| Target | CMKLR1 |
| Synonyms | CHEMERINR; ChemR23; DEZ; RVER1 |
| Description | Human CMKLR1 full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | Q99788 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | N/A |
| Molecular Weight | The human full length CMKLR1 protein has a MW of 42.3 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 |
| 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 | Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 induces activation of intracellular signaling molecules, such as SKY, MAPK1/3 (ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional effects, like, reduction of immune responses, enhancing of adipogenesis and angiogenesis. Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B. Positively regulates adipogenesis and adipocyte metabolism. Acts as a coreceptor for several SIV strains (SIVMAC316, SIVMAC239, SIVMAC17E-FR and SIVSM62A), as well as a primary HIV-1 strain (92UG024-2). |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate CMKLR1-Nanodisc 0.2 μ g Human CMKLR1-Nanodisc per well

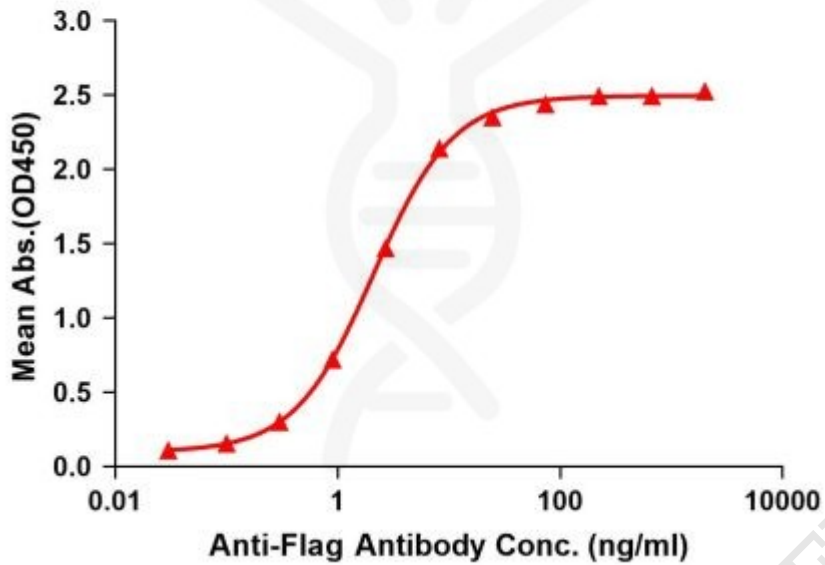


Figure1. Elisa plates were pre-coated with Flag Tag CMKLR1-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CMKLR1-Nanodisc is 2.107ng/ml.

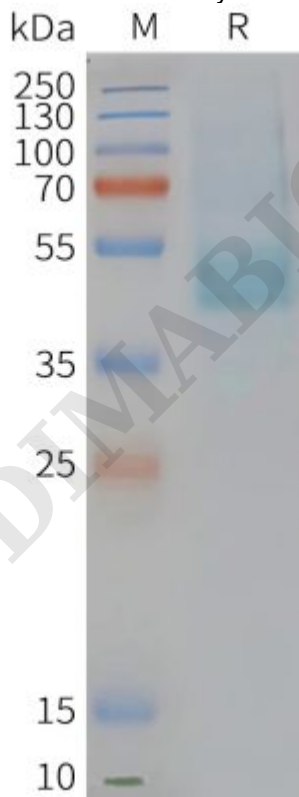


Figure2. Human CMKLR1-Nanodisc, Flag Tag on SDS-PAGE

