

## HUMAN PTGDR2 FULL LENGTH PROTEIN

**Cat.#:** 11106

**Product Name:** Human PTGDR2 Full Length Protein

**Size:** 10 µg; 50 µg and 100 µg

**Synonyms:** CD294; CRTH2; DLIR; DP2; GPR44

**Target:** PTGDR2

**UNIPROT ID:** Q9Y5Y4

**Description:** Human PTGDR2 Full Length Protein-Synthetic Nanodisc

**Background:** The protein is a G-protein-coupled receptor that is preferentially expressed in CD4+ effector T helper 2 (Th2) cells. This protein is a prostaglandin D2 receptor that mediates the pro-inflammatory chemotaxis of eosinophils, basophils, and Th2 lymphocytes generated during allergic inflammation. Single nucleotide polymorphisms in the 3' UTR of this gene have been associated with asthma susceptibility.

**Species/Host:** HEK293

**Molecular Weight:** The human full length PTGDR2 protein has a MW of 43.3 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.

**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.

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** N/A

### ELISA assay to evaluate PTGDR2-Nanodisc 0.2µg Human PTGDR2-Nanodisc per well

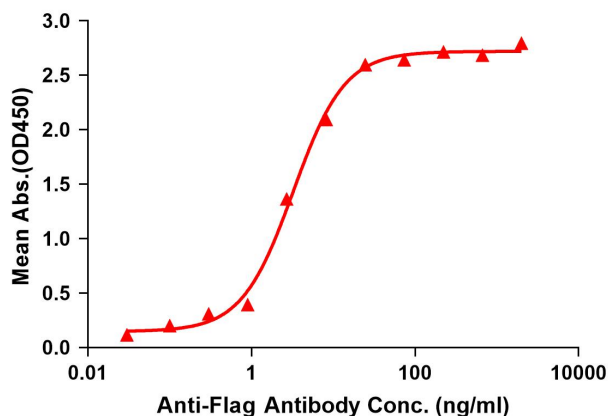


Figure 1. Elisa plates were pre-coated with Flag Tag PTGDR2-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTGDR2-Nanodisc is 3.249ng/ml.



Figure 2. Human PTGDR2-Nanodisc, Flag Tag on SDS-PAGE