

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	PTGDR2
Synonyms	CD294; CRTH2; DL1R; DP2; GPR44
Description	Human PTGDR2 full length protein-synthetic nanodisc
Uniprot ID	Q9Y5Y4
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length PTGDR2 protein has a MW of 43.3 kDa
Delivery	In Stock
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. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
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 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.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate PTGDR2-Nanodisc 0.2 μ g Human PTGDR2-Nanodisc per well

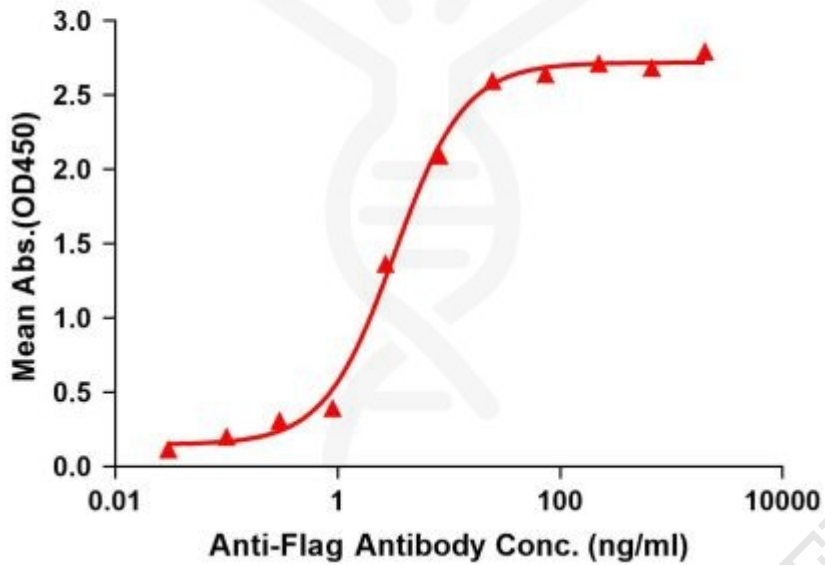


Figure1. Elisa plates were pre-coated with Flag Tag PTGDR2-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTGDR2-Nanodisc is 3.249ng/ml.

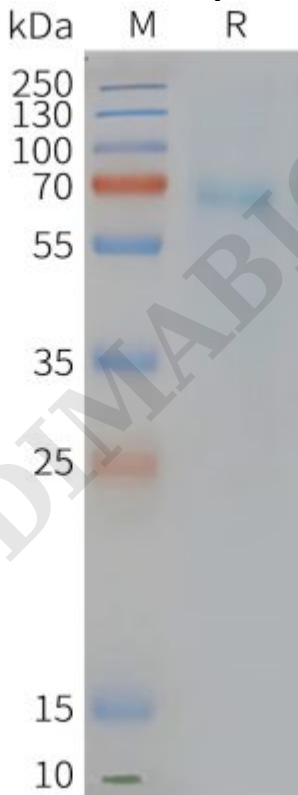


Figure2. Human PTGDR2-Nanodisc, Flag Tag on SDS-PAGE

