

PRODUCT INFORMATION

Tag	N-MBP Tag, C-Flag Tag
Expression Host	HEK293
Target	GPR75
Synonyms	GPRchr2; WI31133
Description	Human MBP-GPR75 full length protein-synthetic nanodisc
Uniprot ID	O95800
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length MBP-GPR75 protein has a MW of 99.4 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	G protein-coupled receptor that is activated by the chemokine CCL5/RANTES. Probably coupled to heterotrimeric Gq proteins, it stimulates inositol trisphosphate production and calcium mobilization upon activation. Together with CCL5/RANTES, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. CCL5/RANTES may also regulate insulin secretion by pancreatic islet cells through activation of this receptor.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate MBP-GPR75-Nanodisc 0.2 μ g Human MBP-GPR75-Nanodisc per well

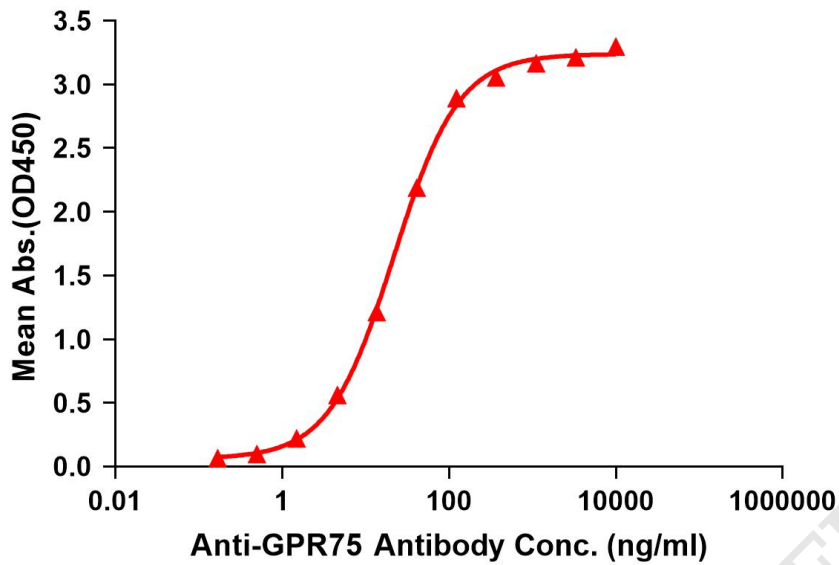


Figure 1. Elisa plates were pre-coated with N-MBP Tag, C-Flag Tag MBP-GPR75-Nanodisc (0.2 μ g/per well). Serial diluted anti-GPR75 monoclonal antibody (DMC100368) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPR75 monoclonal antibody binding with MBP-GPR75-Nanodisc is 21.90ng/ml.

kDa M R

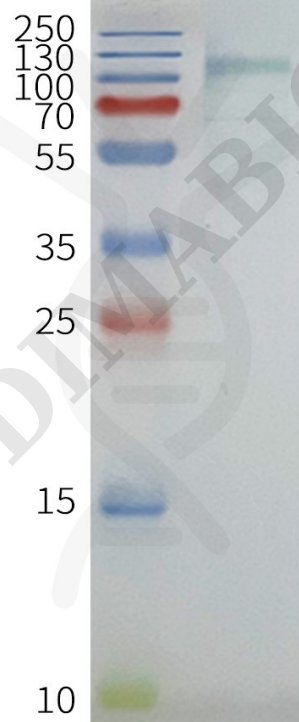


Figure 2. Human MBP-GPR75-Nanodisc with N-MBP Tag, C-Flag Tag on SDS-PAGE

