

## **PRODUCT INFORMATION**

C-Flag&Strep Tag Tag

GPR75 **Target** 

**Synonyms** GPRchr2; WI31133

Human GPR75-Strep full length protein-synthetic **Description** 

nanodisc **Delivery** 6~8weeks **Uniprot ID** 095800 **Expression Host HEK293** 

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

**Protein Pathways** N/A

**Background** 

The human full length GPR75-Strep protein has a **Molecular Weight** 

MW of 59.4 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. 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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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

pathway involving the PI3, Akt and MAP kinases. CCL5/RANTES may also regulate insulin secretion by pancreatic islet cells through activation of this

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receptor.

**Usage** Research use only

Conjugate Unconjugated





## ELISA assay to evaluate GPR75-Strep-Nanodisc 0.2µg Human GPR75-Strep-Nanodisc per well

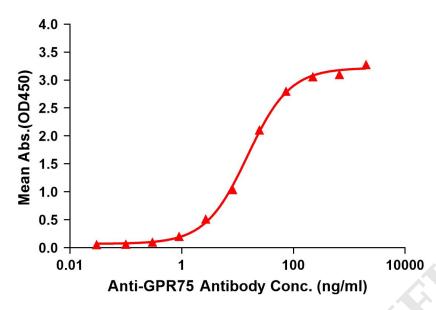


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GPR75-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-GPR75 monoclonal antibody (DMC100368) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPR75 monoclonal antibody binding with GPR75-Strep-Nanodisc is 15.14ng/ml.

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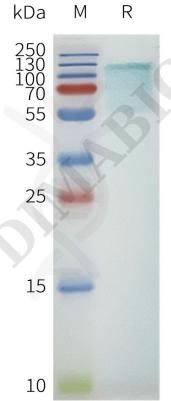


Figure 2. Human GPR75-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE





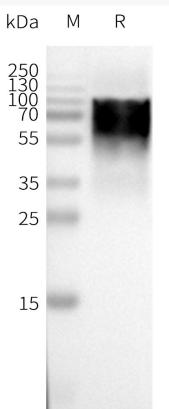


Figure 3. WB analysis of GPR75-Strep-Nanodisc with anti-GPR75 monoclonal antibody (DMC100368), followed by Goat Anti-Human IgG HRP at 1/5000 dilution

## SPR assay to evaluate GPR75-Strep-Nanodisc

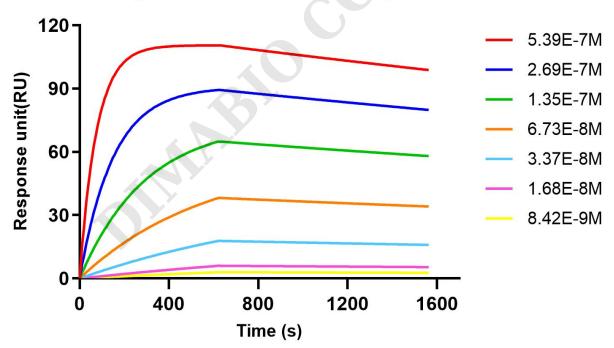


Figure 4. Loaded Human GPR75 monoclonal antibody (DMC100368) on Pro-A Biosensor, can bind human GPR75-Strep full length protein-synthetic nanodisc with an affinity constant of 5.02nM as determined in SPR assay.

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