

PRODUCT INFORMATION

Tag N-MBP Tag, C-Flag Tag

Target GPR75

Synonyms GPRchr2; WI31133

DescriptionHuman MBP-GPR75 full length protein-synthetic

nanodisc In Stock

Delivery In Stock
Uniprot ID 095800
Expression Host HEK293

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways N/A

Formulation & Reconstitution

Storage & Shipping

Background

Molecular Weight
The human full length MBP-GPR75 protein has a

MW of 99.4 kDa Lyophilized from nanodisc solubilization buffer (20

mM Tris-HCI, 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

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. 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.

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

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réceptor.

Usage Research use only

Conjugate Unconjugated





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

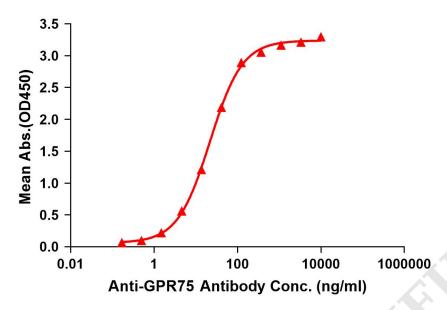


Figure 1. Elisa plates were pre-coated with N-MBP Tag, C-Flag Tag MBP-GPR75-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-GPR75 monoclonal antibody (DMC100368) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPR75 monoclonal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

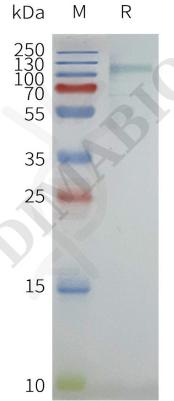
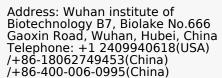


Figure 2. Human MBP-GPR75-Nanodisc with N-MBP Tag, C-Flag Tag on SDS-PAGE



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