

## **PRODUCT INFORMATION**

C-Flag Tag Tag GPR75 **Target** 

**Synonyms** GPRchr2; WI31133

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

nanodisc **Delivery** In Stock **Uniprot ID** 095800 **Expression Host HEK293** 

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

**Protein Pathways** N/A

Storage & Shipping

**Background** 

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

MW of 70.3 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 lyophilization. Please see Certificate of Analysis Formulation & Reconstitution 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.

GPR75 is a member of the G protein-coupled receptor family and is a novel target for the clinical treatment of obesity. Human GPR75 haploinsufficiency exhibits a striking phenotype of low body fat, and GPR75 knockout mice are hypophagic and thin, improving glucose tolerance and insulin sensitivity. The BRIL sequence was added to the N-terminal of GPR75 to enhance receptor stability. BRIL is thermostabilized

receptor stability. BRIL is thermostabilized apocytochrome b562 with mutations M7W, H102I,

R106L, PDB ID 1M6T.

Usage Research use only Conjugate Unconjugated

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

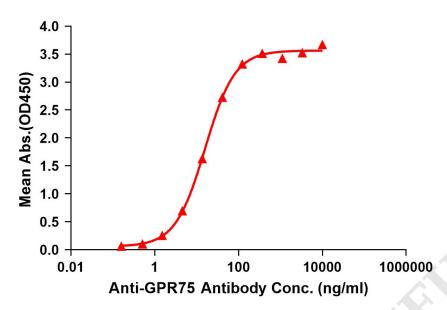


Figure 1. Elisa plates were pre-coated with C-Flag Tag BRIL-GPR75-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-GPR75 monoclonal antibody (DMC100368) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPR75 monoclonal antibody binding with BRIL-GPR75-Nanodisc is 15.94ng/ml.

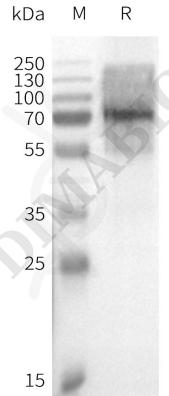


Figure 2. WB analysis of BRIL-GPR75-Nanodisc with anti-GPR75 monoclonal antibody (DMC100368), followed by Goat Anti-Human  $\log$  HRP at 1/5000 dilution

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