

## **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

**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 Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

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.

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 apocytochrone 1MCT.

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R106L, PDB ID 1M6T.

**Usage** Research use only

Conjugate Unconjugated





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

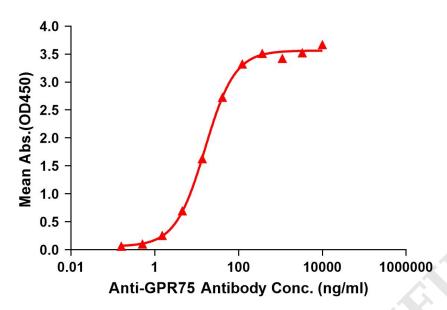


Figure 1. Elisa plates were pre-coated with C-Flag Tag BRIL-GPR75-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-GPR75 monoclonal antibody (DMC100368) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPR75 monoclonal antibody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

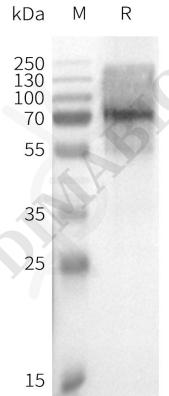


Figure 2. WB analysis of BRIL-GPR75-Nanodisc with anti-GPR75 monoclonal antibody (DMC100368), followed by Goat Anti-Human  $\log$  HRP at 1/5000 dilution

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