

## **PRODUCT INFORMATION**

Tag C-Flag Tag GPR20 **Target** 

**Synonyms** G-protein coupled receptor 20

Human GPR20 full length protein-synthetic **Description** 

nanodisc **Delivery** In Stock **Uniprot ID** Q99678 **Expression Host HEK293** 

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

**Protein Pathways** 

The human full length GPR20 protein has a MW of **Molecular Weight** 

38.7 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 Storage & Shipping at -80°C(Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

témperature.

GPR20 is one of the orphan GPCRs that has been identified from human genomic DNA by PCR amplification using primers based on the sequences of the opioid/somatostatin-related receptors, GPR7 and GPR8. The expression of human GPR20 has been detected in several brain regions, including the caudate nuclei, putamen, and the thalamus. A recently disclosed patent demonstrated that GPR20-deficient mice

**Background** 

exhibited a hyperactivity disorder characterized by an increase in total distance traveled in an open field test, implying a substantial role of GPR20 in neurophysiological function. However, the physiological mechanisms of GPR20 action, including the identification of natural ligands for

GPR20, have not yet been elucidated.

Usage Research use only Conjugate Unconjugated

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## ELISA assay to evaluate GPR20-Nanodisc 0.2µg Human GPR20-Nanodisc per well

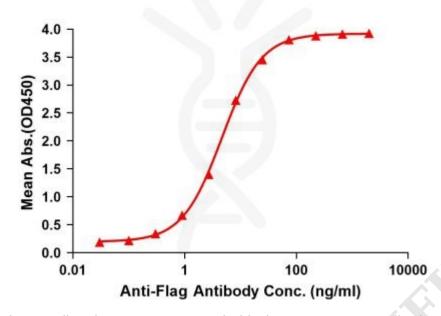


Figure 1. Elisa plates were pre-coated with Flag Tag GPR20-Nanodisc ( $0.2\mu g/per$  well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GPR20-Nanodisc is 4.663 ng/ml.

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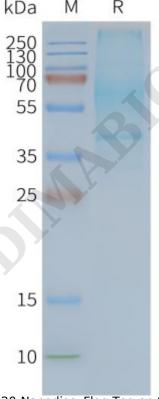


Figure 2. Human GPR 20-Nanodisc, Flag Tag on SDS-PAGE