

## PRODUCT INFORMATION

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|---|--|
| <b>Tag</b>                              | C-Flag&Strep Tag   |
| <b>Target</b>                           | GABR2  |
| <b>Synonyms</b>                         | DEE59; EIEE59; GABABR2; GPR51; GPRC3B; HG20; HRIHFB2099; NDPLHS  |
| <b>Description</b>                      | Human GABR2-Strep full length protein-synthetic nanodisc   |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | Q75899   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Protein Families</b>                 | Druggable Genome, GPCR, Transmembrane  |
| <b>Protein Pathways</b>                 | Neuroactive ligand-receptor interaction  |
| <b>Molecular Weight</b>                 | The human full length GABR2-Strep protein has a MW of 105.8 kDa  |
| <b>Formulation &amp; Reconstitution</b> | 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 for specific instructions of reconstitution.   |
| <b>Storage&amp;Shipping</b>             | 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.  |
| <b>Background</b>                       | The multi-pass membrane protein belongs to the G-protein coupled receptor 3 family and GABA-B receptor subfamily. The GABA-B receptors inhibit neuronal activity through G protein-coupled second-messenger systems, which regulate the release of neurotransmitters, and the activity of ion channels and adenylyl cyclase. This receptor subunit forms an active heterodimeric complex with GABA-B receptor subunit 1, neither of which is effective on its own. |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Unconjugated   |



**ELISA assay to evaluate GABR2-Strep-Nanodisc**  
0.2 $\mu$ g Human GABR2-Strep-Nanodisc per well

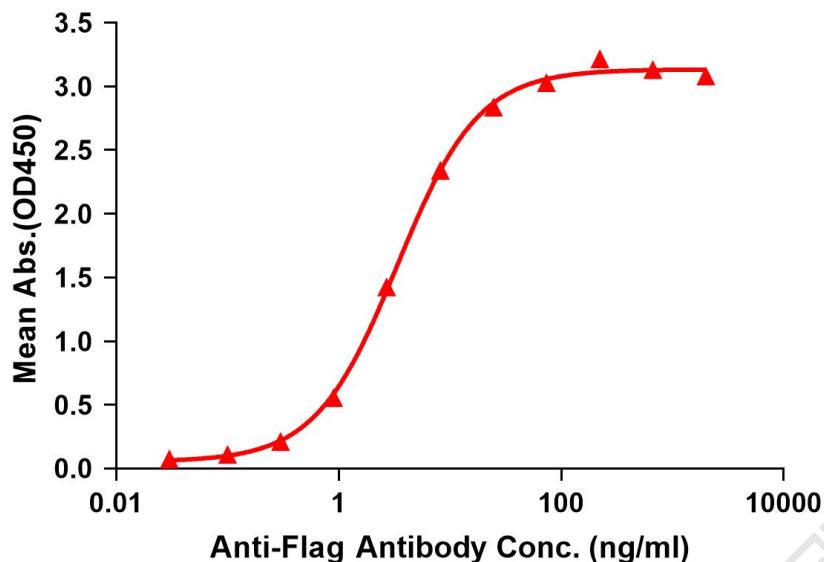


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GABR2-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GABR2-Strep-nanodisc is 3.361ng/ml.

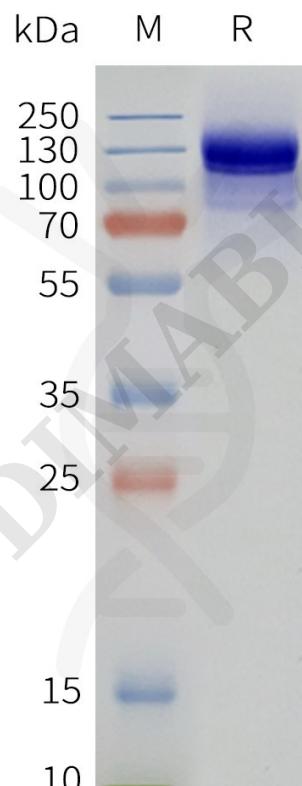


Figure 2. Human GABR2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

