

**PRODUCT INFORMATION**

|                                         |                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tag</b>                              | C-Flag Tag                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Target</b>                           | ADORA2B                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                         | ADORA2                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>                      | Human ADORA2B full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                 |
| <b>Delivery</b>                         | In Stock                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Uniprot ID</b>                       | P29275                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Expression Host</b>                  | HEK293                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Families</b>                 | Druggable Genome, GPCR, Transmembrane                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Pathways</b>                 | Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction                                                                                                                                                                                                                                                                               |
| <b>Molecular Weight</b>                 | The human full length ADORA2B protein has a MW of 36.3 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. 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. |
| <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>                       | An adenosine receptor that is a member of the G protein-coupled receptor superfamily. This integral membrane protein stimulates adenylate cyclase activity in the presence of adenosine. This protein also interacts with netrin-1, which is involved in axon elongation.                                                                                                            |
| <b>Usage</b>                            | Research use only                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conjugate</b>                        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                         |



### ELISA assay to evaluate ADORA2B-Nanodisc 0.2 $\mu$ g Human ADORA2B-Nanodisc per well

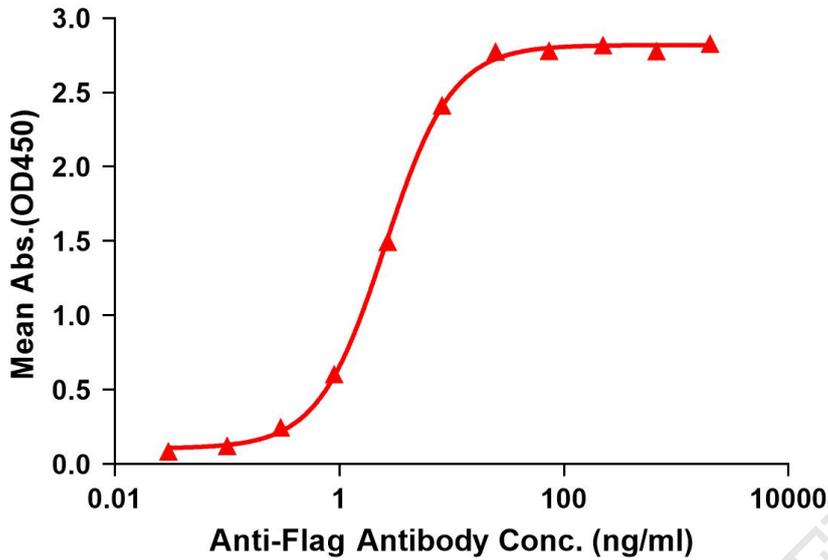


Figure 1. Elisa plates were pre-coated with Flag Tag ADORA2B-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with ADORA2B-Nanodisc is 2.548ng/ml.

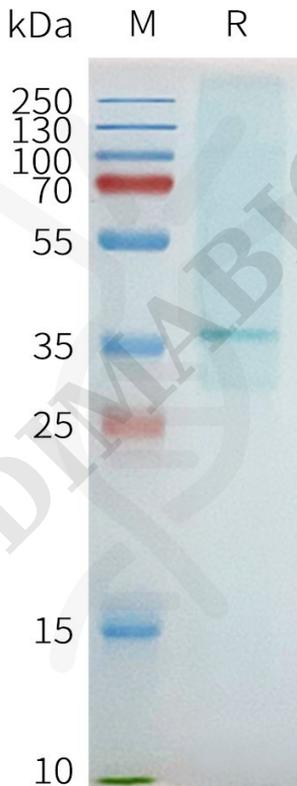


Figure 2. Human ADORA2B-Nanodisc, Flag Tag on SDS-PAGE

