

PRODUCT INFORMATION

|                              |   |
|------------------------------|---|
| Tag                          | C-Flag Tag  |
| Target                       | PTPRZ1  |
| Synonyms                     | HPTPZ; HPTPzeta; phosphacan; PTP-ZETA; PTP18; PTPRZ; PTPZ; R-PTP-zeta-2; RPTPB; RPTPbeta  |
| Description                  | Human PTPRZ1 full length protein-synthetic nanodisc   |
| Delivery                     | In Stock  |
| Uniprot ID                   | P23471  |
| Expression Host              | HEK293  |
| Protein Families             | Druggable Genome, Phosphatase, Transmembrane  |
| Protein Pathways             | Epithelial cell signaling in Helicobacter pylori infection  |
| Molecular Weight             | The human full length PTPRZ1 protein has a MW of 254.6 kDa  |
| Formulation & Reconstitution | 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.  |
| Storage & Shipping           | 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.   |
| Background                   | Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the embryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligodendrocytes against apoptosis. May play a role in the establishment of contextual memory, probably via the dephosphorylation of proteins that are part of important signaling cascades. |
| Usage                        | Research use only   |
| Conjugate                    | Unconjugated  |



**ELISA assay to evaluate PTPRZ1-Nanodisc**  
0.2µg Human PTPRZ1-Nanodisc per well

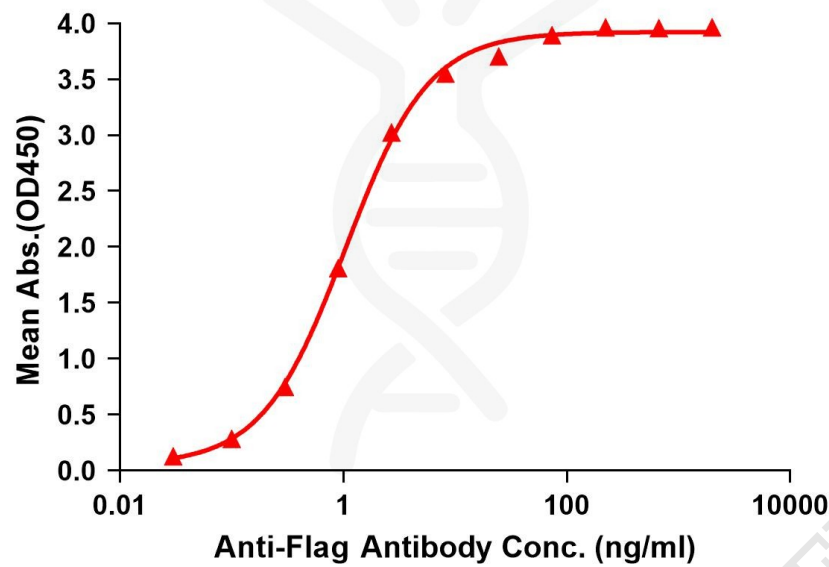


Figure 1. Elisa plates were pre-coated with Flag Tag PTPRZ1-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTPRZ1-Nanodisc is 1.047ng/ml.

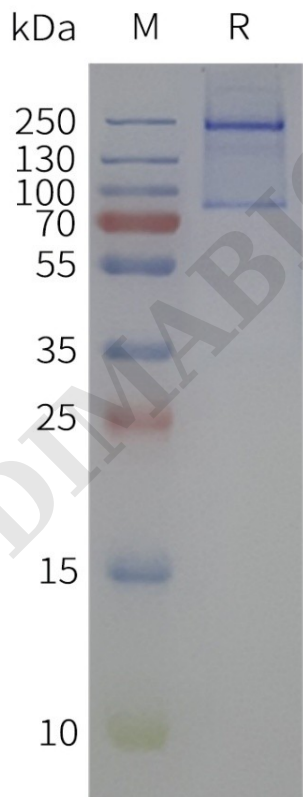


Figure 2. Human PTPRZ1-Nanodisc, Flag Tag on SDS-PAGE

