

## Product datasheet for **TP721441M**

### CD151 Human Recombinant Protein, Synthetic Nanodisc

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant Human CD151 full length protein-Synthetic Nanodisc, 100µg   |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | C-terminal Flag tagged overexpression cDNA clone  |
| Tag:                                  | C-term Flag Tag   |
| Predicted MW:                         | The human full length CD151 protein has a MW of 28.3 kDa  |
| Concentration:                        | Please refer to the Certificate of Analysis (COA) for the lot-specific concentration before lyophilization.   |
| Purity:                               | The purity of the protein is determined by SDS-PAGE and Coomassie blue staining.  |
| Buffer:                               | 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. Do not use solvents with pH lower than 6.5 in subsequent experiments.  |
| Reconstitution Method:                | 1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5min at room temperature to ensure the lyophilized sample settles down at the bottom of the tube.<br>2. Calculate the volume for reconstitution (in µL) using the formula: [Quantity (mg)/Concentration (mg/mL)]x1000<br>3. Dissolve the lyophilized protein sample in sterile water based on the calculated volume (µL)<br>4. After adding sterile water, cover the lid and mix by gently tapping the tube 5-10 times. Note: Do not vortex or vigorously pipette the sample. |
| Preparation:                          | Affinity purification   |
| Storage:                              | Store at -20°C to -80°C for 12 months in lyophilized form.  |
| Stability:                            | After reconstitution, if not intended for use within a month, aliquot and store at -80°C . Avoid repeated freezing and thawing.   |
| Locus ID:                             | 977   |
| UniProt ID:                           | <a href="#">P48509</a>  |
| Synonyms:                             | GP27; MER2; PETA-3; RAPH; SFA1; TSPAN24   |



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Protein Families: Ion Channels: Other, Transmembrane

## Product images:

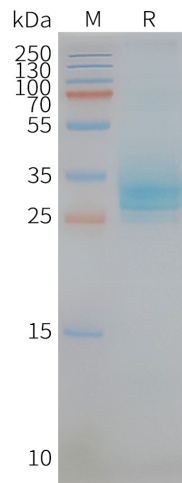


Figure 2. Human CD151-Nanodisc, Flag Tag on SDS-PAGE

### ELISA assay to evaluate CD151-Nanodisc 0.2µg Human CD151-Nanodisc per well

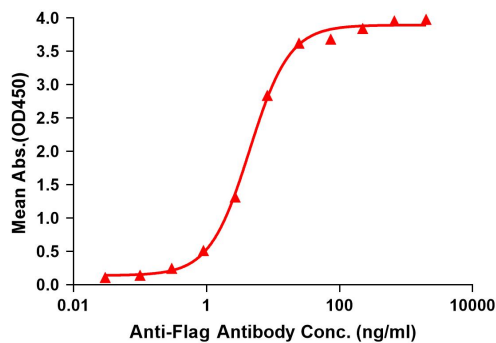


Figure 1. Elisa plates were pre-coated with Flag Tag CD151-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CD151-Nanodisc is 4.446ng/ml.