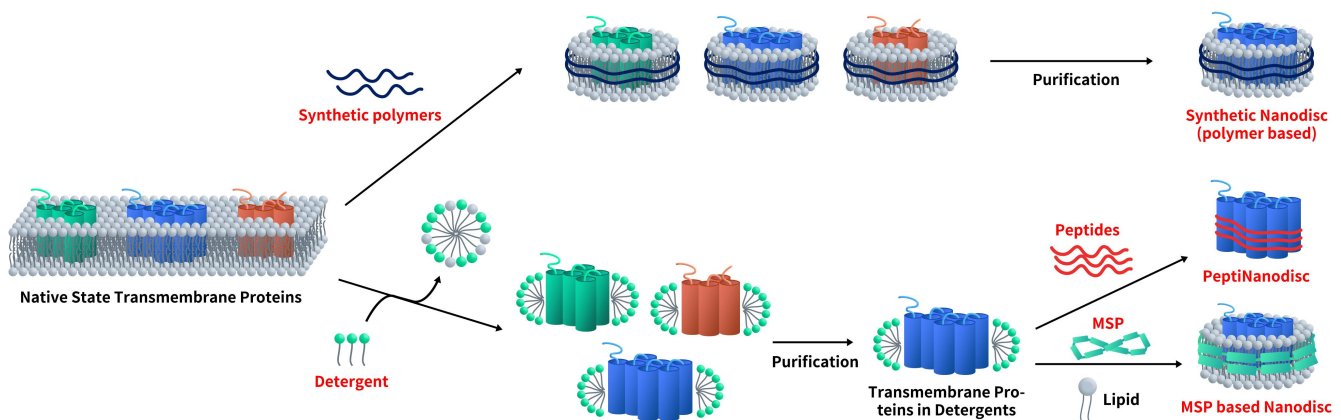




DIMA BIOTECH's Nanodisc platforms, **Synthetic Nanodisc** and **PeptiNanodisc**, are powerful tools for working with membrane proteins in a stable, native-like form without using detergents.

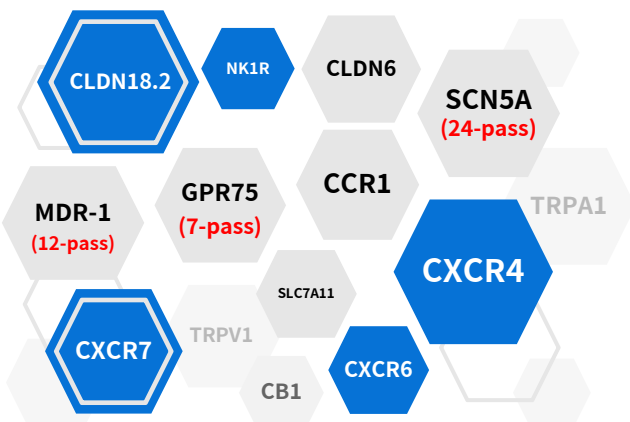
These systems are designed to support full-length, multi-pass membrane proteins with proper structure and post translational modifications. Proteins are expressed in HEK293 cells for high quality and biological relevance.

We have developed over **700** Nanodisc proteins, with more than **300** available in stock. Many have been successfully used in research on **GPCRs, ion channels, transporters** and other challenging targets.



Feature	MSP Nanodisc	Synthetic Nanodisc	PeptiNanodisc
Scaffold	Membrane scaffold protein (MSP)	Synthetic polymer	Designed peptides
Lipid Source	Lipids added in vitro	Uses native lipids from cells	Lipid free
Detergent Use	Detergent used to solubilize proteins	Detergent-free	Mild detergent used, replaced by peptides
Cell-based Assays	Limited, lipid fusion risk	Limited, lipid fusion risk	Optimized, no fusion or interference
Assay Ready	Stable and biologically relevant	Native structure, PTMs preserved	Stable and biologically relevant

## 700+ Target Proteins

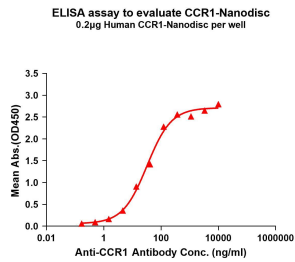


## Applications:

- ELISA
- SPR
- Phage display screening
- **Immunization** (Synthetic Nanodisc)
- BLI
- **Cell-based assays** (PeptiNanodisc)
- Cryo-EM
- Small molecule screening

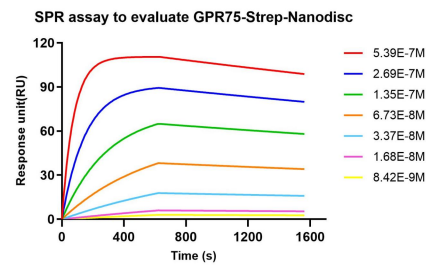
## Synthetic Nanodisc Data

### ELISA



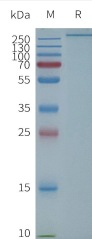
ELISA analysis using anti-CCR1 monoclonal antibody (Cat. No.DMC100465) and purified human CCR1 full length protein-synthetic nanodisc, **7-pass GPCR**, Cat. No. FLP100094

### SPR



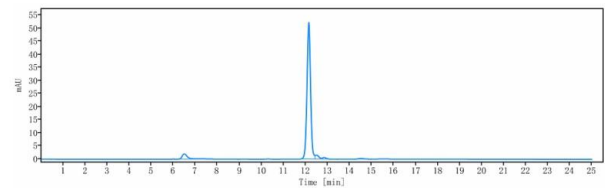
Human GPR75-Nanodisc can bind Anti-GPR75 antibody (DMC100368) with an affinity constant of 5.02 nM as determined in a SPR assay. **7-pass GPCR**, cat. No.FLP120031

### SDS-PAGE



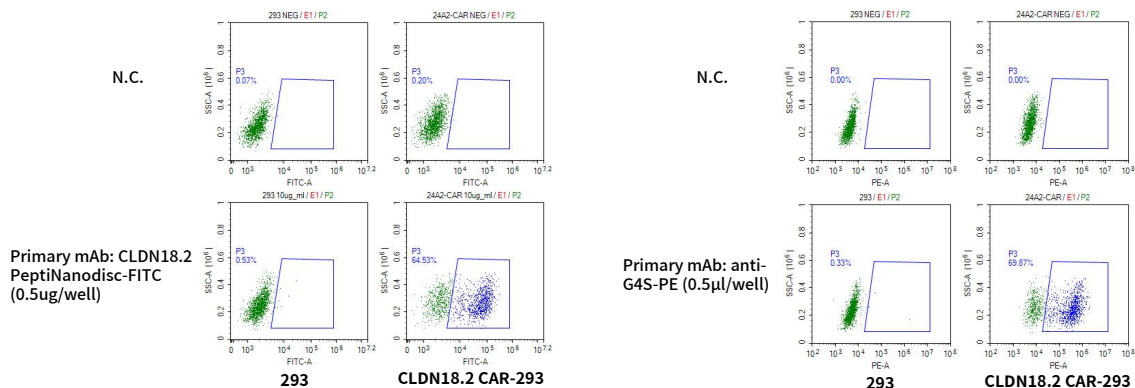
Human SCN5A-Nanodisc, Flag Tag on SDS-PAGE. **24-pass Na+ ion channel**, cat. No.FLP100726

### SEC-HPLC



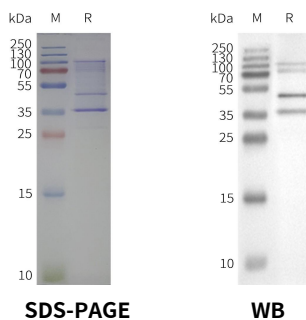
The purity of Human SLC7A11 full length protein-synthetic nanodisc is greater than 90% as determined by SEC-HPLC. **12-pass Cystine/glutamate transporter**, Cat. No. FLP100048

## PeptiNanodisc Cell-Based Assay Data



FITC-labeled CLDN18.2 PeptiNanodisc (Cat# FLP400011) demonstrated performance comparable to the G4S-PE method in detecting CLDN18.2 CAR positivity- confirming its utility in live-cell applications.

## Negative control-synthetic nanodisc (SKU: FLP100000)

Add a control to your order—get it for 50% off!