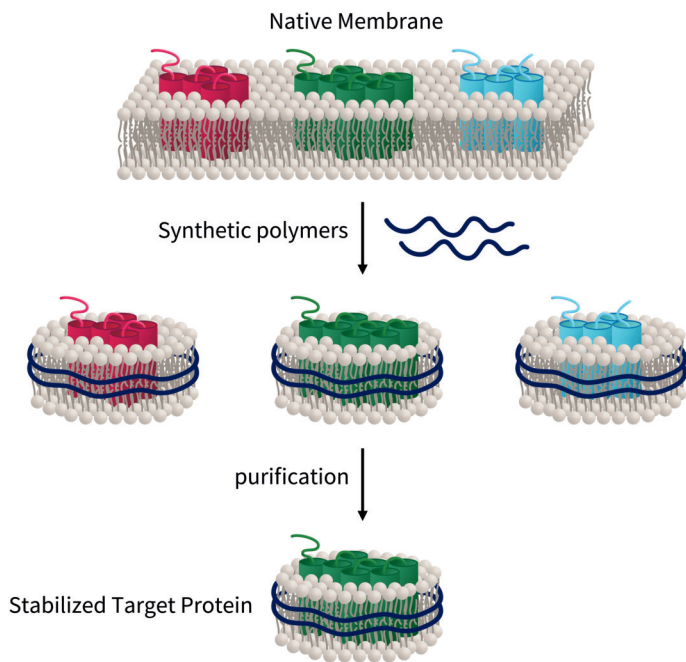


Full-length Transmembrane Protein

Multi-pass transmembrane proteins in the Synthetic Nanodisc format retain their native conformation and activity, making them ideal for structural studies, functional assays, and drug discovery. Our portfolio features a diverse range of transmembrane proteins, including Claudins, GPCRs, and other key membrane protein molecules, such as four-pass transmembrane proteins (Claudin18.2, Claudin-6, and more) and seven-pass transmembrane proteins (GPCRC5D, CXCR4, SSTR2, GLP1R, CCR5, CCR8, and more).

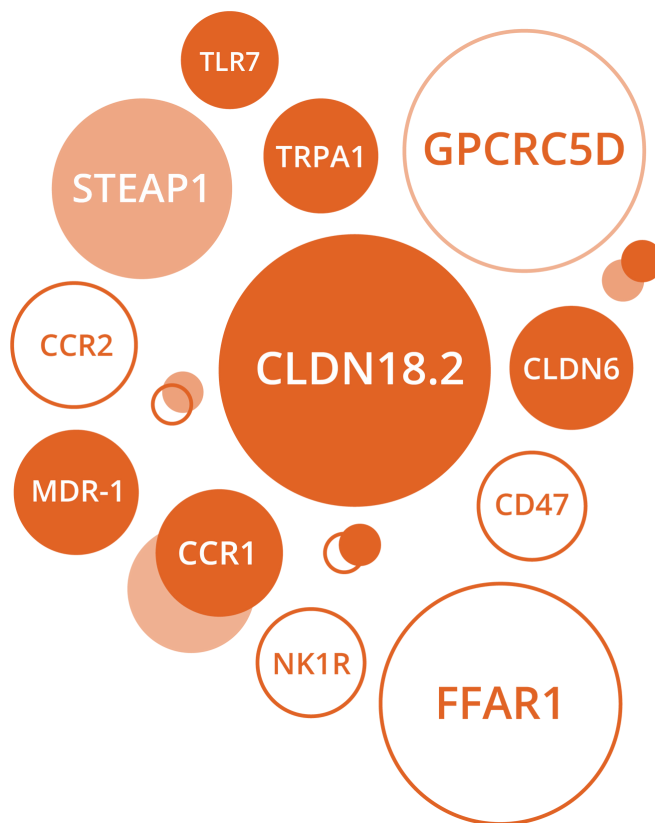
Synthetic Nanodisc Platform



Advantages

- ✓ Highly purified membrane proteins
- ✓ High solubility in aqueous solutions
- ✓ High stability
- ✓ Proteins remain active due to native membrane environment
- ✓ No detergent and usable for cell-based assays
- ✓ Post-translational modifications ensured by mammalian cell expression system
- ✓ No MSP backbone proteins

480+ Key Targets



Applications

- ✓ ELISA
- ✓ SPR affinity analysis
- ✓ Phage display screening
- ✓ Immunization
- ✓ Cryo-EM membrane protein structure analysis
- ✓ Protein crystal structure analysis

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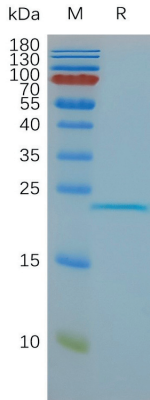
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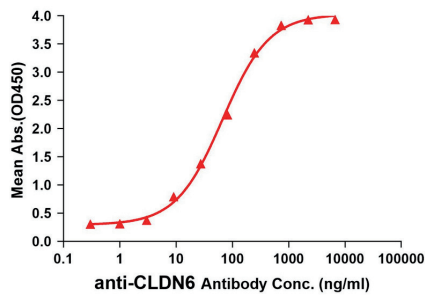
Case Studies

CLDN6



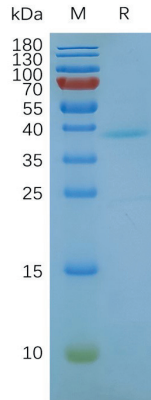
Human CLDN6-Nanodisc on SDS-PAGE

ELISA assay to evaluate CLDN6-Nanodisc
0.5µg Human CLDN6 Nanodisc per well



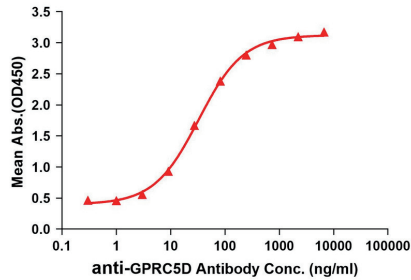
CLDN6-Nanodisc can bind anti-CLDN6 monoclonal antibody and the EC50 is 66.99ng/ml.

GPRC5D



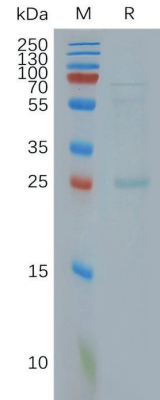
Human GPRC5D-Nanodisc on SDS-PAGE

ELISA assay to evaluate GPRC5D-Nanodisc
0.5µg Human GPRC5D-Nanodisc per well



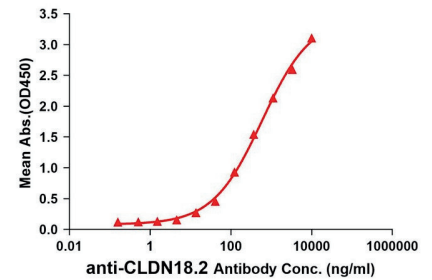
GPRC5D-Nanodisc can bind anti-GPRC5D monoclonal antibody and the EC50 is 32.86ng/ml.

CLDN18.2



Human CLDN18.2 - Nanodisc on SDS-PAGE

ELISA assay to evaluate CLDN18.2-Nanodisc
0.2µg Human CLDN18.2 Nanodisc per well



CLDN18.2-Nanodisc can bind anti-CLDN18.2 monoclonal antibody and the EC50 is 593.6 ng/ml.

Additional Platforms For Transmembrane Proteins

In addition to Synthetic Nanodisc, OriGene provides three distinct platforms for transmembrane proteins:

Membrane Nanoparticles | Virus-like Particles | Exosomes



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