

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

CLDN18.2 **Target Synonyms** SFTA5; SFTPI

Human CLDN18.2-Strep full length protein-**Description**

synthetic nanodisc

Delivery In Stock **Uniprot ID** P56856 **Expression Host HEK293**

Protein Families Transmembrane

Cell adhesion molecules (CAMs), Leukocyte **Protein Pathways** transendothelial migration, Tight junction

The human full length CLDN18.2-Strep Protein **Molecular Weight**

has a MW of 27.5 kDa

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

Formulation & Reconstitution 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.

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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

A member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell solutions and since the paracellular space between endothelial cells and since and since the paracellular space.

in maintaining cell polarity and signal transductions. This gene is upregulated in patients with ulcerative colitis and highly

overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells.

Alternatively spliced transcript variants encoding

different isoforms have been identified.

Usage Research use only Conjugate Unconjugated





Background



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

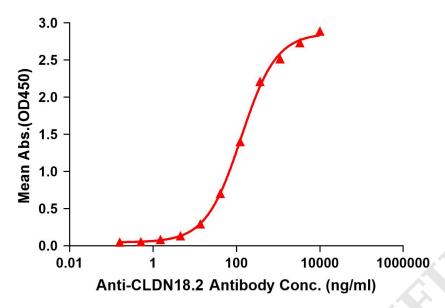


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag CLDN18.2-Strep-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-CLDN18.2 monoclonal antibody (BME100075) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CLDN18.2 monoclonal antibody binding with CLDN18.2-Strep-Nanodisc is 129.8ng/ml.

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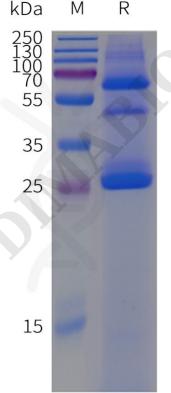


Figure 2. Human CLDN18.2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE





SPR assay to evaluate CLDN18.2-Strep-Nanodisc

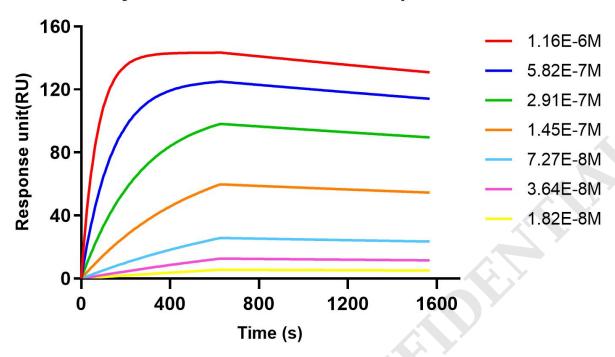


Figure 3. Loaded Human CLDN18.2 monoclonal antibody (BME100075) on Pro-A Biosensor, can bind human CLDN18.2-Strep full length protein-synthetic nanodisc with an affinity constant of 8.09nM as determined in SPR assay.

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