

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag&Avi Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	CLDN18.2
<b>Synonyms</b>	SFTA5; SFTPJ
<b>Description</b>	Biotinylated Human CLDN18.2 full length protein- PeptiNanodisc
<b>Uniprot ID</b>	P56856-2
<b>Protein Families</b>	Transmembrane
<b>Protein Pathways</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
<b>Molecular Weight</b>	The human full length CLDN18.2 Protein has a MW of 27.5 kDa
<b>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	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.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Storage&amp;Shipping</b>	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.
<b>Background</b>	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 sheets, and also play critical roles 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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Biotinylated



### ELISA assay to evaluate Biotinylated CLDN18.2-PeptiNanodisc 0.2 $\mu$ g Human Biotinylated CLDN18.2-PeptiNanodisc per well

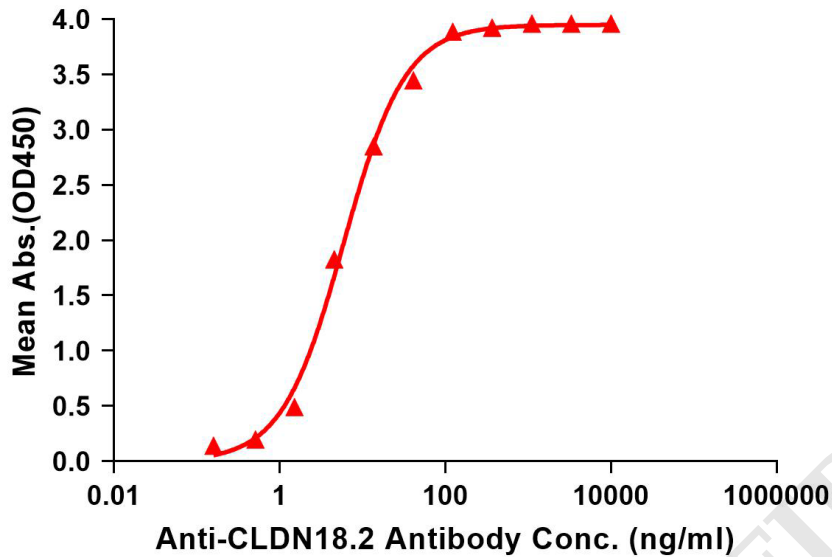


Figure 1. Elisa plates were added with C-Flag&Avi Tag Biotinylated CLDN18.2-PeptiNanodisc (0.2 $\mu$ g/per well) on a Streptavidin pre-coated (0.2 $\mu$ g/per well) plate. Serial diluted anti-CLDN18.2 monoclonal antibody (DME100179) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CLDN18.2 monoclonal antibody binding with Biotinylated CLDN18.2-PeptiNanodisc is 5.94ng/ml.

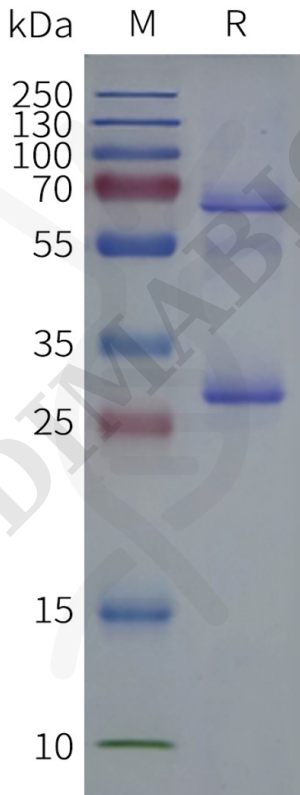


Figure 2. Biotinylated Human CLDN18.2-PeptiNanodisc, C-Flag&Avi Tag on SDS-PAGE

