

**PRODUCT INFORMATION**

<b>Tag</b>	C-Flag&Single Strep Tag
<b>Expression Host</b>	E.coli
<b>Target</b>	CLDN18.2
<b>Description</b>	Human CLDN18.2 cell-free full length protein-Nanodisc
<b>Synonyms</b>	SFTA5; SFTPJ
<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 CLDN18.2 cell-free full length protein-Nanodisc has a MW of 29.9kDa
<b>Delivery</b>	1 week
<b>Formulation &amp; Reconstitution</b>	Liquid, 20 mM HEPES, 150 mM NaCl, pH6.8
<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 -80°C, Ship on dry ice.
<b>Purity</b>	>80%
<b>Background</b>	<p>The protein encodes 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. [provided by RefSeq, Jun 2010]</p>
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### CLDN18.2 Bioactivity (Elisa)

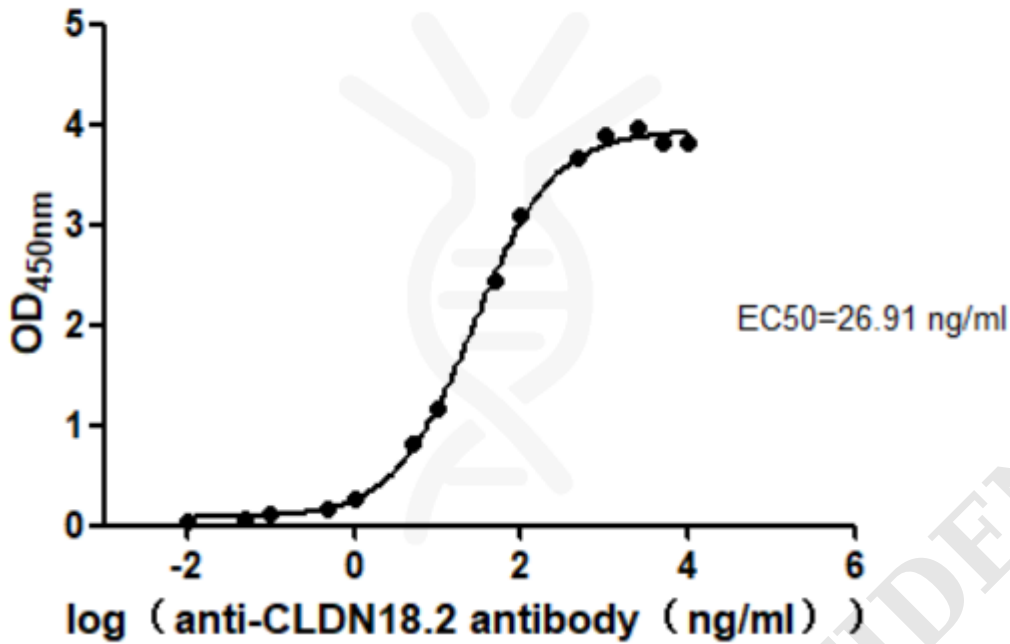


Figure 1. Elisa plates were pre-coated with C-Flag&Single Strep Tag CLDN18.2 cell-free-Nanodisc (0.5 $\mu$ g/per well). Serial diluted anti-GLP1R antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CLDN18.2 antibody binding with CLDN18.2 cell-free-Nanodisc is 26.91 ng/mL.



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

