

HDFP766

## Product Information

|                     |          |                         |                  |              |      |
|---------------------|----------|-------------------------|------------------|--------------|------|
| <b>Product SKU:</b> | HDFP766  | <b>Expression Host:</b> | HEK293           | <b>Size:</b> | 10µg |
| <b>Target:</b>      | CLDN18.2 | <b>Tag:</b>             | C-Flag&Strep Tag |              |      |

## Additional Information

|                          |   |                    |        |
|--------------------------|---|--------------------|--------|
| <b>Conjugate:</b>        | Unconjugated  | <b>Uniprot ID:</b> | P56856 |
| <b>Molecular Weight:</b> | The human full length CLDN18.2-Strep Protein has a MW of 27.5 kDa |                    |        |

## Protein Information

**Background:** 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]

**Synonyms:** Claudin 18.2

**Protein Description:** Human CLDN18.2-Strep full length protein-synthetic nanodisc

**Formulation:** 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. 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.

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

**Protein Families:** Transmembrane.

**Usage:** Research use only

**Storage & Shipping:** 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.