

## Product datasheet for **TP762673**

### Claudin18 (CLDN18) (NM\_001002026) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human claudin 18 (CLDN18), transcript variant 2, 28Asp-78Ala-GGGGS-145Thr-167Thr, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(28Asp-78Ala-GGGGS-145Thr-167Thr) of CLDN18
Tag:	N-His
Predicted MW:	8.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001002026</a>
Locus ID:	51208
UniProt ID:	<a href="#">P56856</a>
RefSeq Size:	3350
Cytogenetics:	3q22.3
RefSeq ORF:	783
Synonyms:	SFTA5; SFTPJ


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**Summary:**

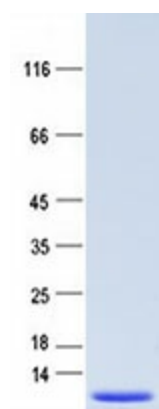
This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell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

**Protein Families:**

Transmembrane

**Protein Pathways:**

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

**Product images:**


Purified recombinant protein CLDN18 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.