

## Product Information

### **MemDX™ Membrane Protein Human CLDN18 (Claudin 18) Expressed in *E.coli* with GST tag at the N-terminus for Antibody Discovery, Partial (28-80aa)**

Cat. No.: **MPX4202K**

This product is for research use only and is not intended for diagnostic use.

This product is a 32.8 kDa Human CLDN18 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### **Host Species**

Human

##### **Target Protein**

CLDN18

##### **Protein Length**

Partial (28-80aa)

##### **Protein Class**

Receptor

##### **Molecular Weight**

32.8 kDa

##### **TMD**

4

##### **Sequence**

DQWSTQDLNNPVTAVFNYQGLWRSCVRESSGFTECRGYFTLLGLPAMLQAVR

#### Product Description

##### **Expression Systems**

*E.coli*

##### **Tag**

GST tag at the N-terminus

##### **Protein Format**

Soluble

##### **Form**

Liquid or Lyophilized powder

**Purity**

>85% as determined by SDS-PAGE.

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

CLDN18

**Full Name**

Claudin 18

**Introduction**

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.

**Alternative Names**

CLDN18; SFTA5; SFTPJ; claudin-18; surfactant associated 5; surfactant associated protein J; surfactant, pulmonary associated protein J; Claudin 18

**Gene ID**

[51208](#)

**UniProt ID**

[P56856](#)