

Recombinant Human CLDN18 protein, GST-tagged

Cat. No. CLDN18-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLDN18(1 a.a. - 261 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1 a.a. - 261 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	54.3 kDa
AA Sequence	MSTTTCQVVAFLLSILGLAGCIAATGMDMWSTQDLYDNPVTSVFQYEGLWRSCVRQ

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SSGFTECRPYFTILGLPAMLQAVRALMIVGIVLGAIGLLVSIFALKCIRIGSMEDSAKAN
 MTLTSGIMFIVSGLCAIAGVSVFANMLVTNFWMSTANMYTGMGGMVQTVQTRYTFG
 AALFVGWVAGGLTLIGGVMMCIACRGLAPEETNYKAVSYHASGHSVAYKPGGFKAS
 TGFGSNTKNKKIYDGGARTEDEVQSYPSKHDYV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

CLDN18 claudin 18 [Homo sapiens]

Official Symbol

CLDN18

Synonyms

SFTA5; SFTPJ; surfactant associated 5; surfactant associated protein J; surfactant,
 pulmonary associated protein J

Gene ID

51208

mRNA Refseq

NM_016369

Protein Refseq

NP_057453

MIM

609210

UniProt ID

P56856

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Chromosome Location	3q22.3
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Tight junction, organism-specific biosystem
Function	identical protein binding; structural molecule activity

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