Recombinant Human CLDN18 protein, GST-tagged

Cat. No. CLDN18-20H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLDN18(196 a.a. - 261 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	196 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	33 kDa
AA Sequence	CRGLAPEETNYKAVSYHASGHSVAYKPGGFKASTGFGSNTKNKKIYDGGARTEDEV

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	QSYPSKHDYV
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
Chromosome Location	3q22.3
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell-cell junction

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	organization, organism-specific biosystem; Tight junction, organism-specific biosystem
Function	identical protein binding; structural molecule activity

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