

Recombinant Mouse Cldn18 protein, His/SUMO-tagged

Cat. No. Cldn18-35M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cldn18(1-264 aa) fused with His/SUMO tag was expressed in E.coli cell free.
Species	Mouse
Source	E.coli
ProteinLength	1-264 aa
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 a downstream target gene regulated by the T/EBP/NKX2.1 homeodomain transcription factor. Four alternatively spliced transcript variants resulted from alternative promoters and alternative splicing have been identified, which encode two lung-specific isoforms and two stomach-specific isoforms respectively. This gene is also expressed in colons, inner ear and skin, and its expression is increased in both experimental colitis and ulcerative colitis.
Form	Tris-based buffer,50% glycerol
AA Sequence	MATTTTCQVVGLLLSLLGLAGCIAATGMDMWSTQDLYDNPVTAVFQYEGLRSCVQ QSSGF TECRPYFTILGLPAMLQAVRALMIVGIVLGVIGILVSIFALKCIRIGSMDDSAKA

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KMTLT SGILFIISGICAIIGVSVFANMLVTNFWMSTANMYSGMGGMGGMVQTVQTRY
TFGAALFV GWVAGGLTLIGGVMMCIACRGLTPDDSNFKAVSYHASGQNVAYRPGG
FKASTGFGSNTRN KKIYDGGARTEDDEQSHPTKYDYV

Notes

Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage

Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

GENE INFORMATION

Gene Name Cldn18 claudin 18 [*Mus musculus*]

Official Symbol Cldn18

Synonyms claudin-18

Gene ID 56492

mRNA Refseq NM_001194921

Protein Refseq NP_001181850

UniProt ID P56857

Chromosome Location 9; 9 E3-F1

Pathway

Cell adhesion molecules (CAMs), organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Tight junction, conserved

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biosystem

Function

protein binding; structural molecule activity

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