

Recombinant Full Length Human CLDN12 Protein, GST-tagged

Cat. No. CLDN12-2040HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CLDN12 full-length ORF (AAH36754.1, 1 a.a. - 244 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	244 amino acids
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 expressed in the inner ear and bladder epithelium, and it is over-expressed in colorectal carcinomas. This protein and claudin 2 are critical for vitamin D-dependent Ca ²⁺ absorption between enterocytes. Multiple alternatively spliced transcript variants encoding the same protein have been found.[provided by RefSeq, Sep 2011]
Molecular Mass	52.58 kDa
AA Sequence	MGCRDVHAATVLSFLCGIASVAGLFAAGTLLPNWRKLRRLITFNRNEKNLTVYTGLWVK CARYDGSSDCLMYDTTWYSSVDQLDLRVLQFALPLSMLIAMGALLLCLIGMCNTAFR SSVPMKILAKCLVNSAGCHLVAGLLFFLAGTVSLSPSIWVIFYNIHLNKKFEPVFSFDY AVYVTIASAGGLFMTSLILFIWYCTCKSLPSPFWQPLYSHPPSMHTYSQPYSARSRL

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SAIEIDIPVVSHTT

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.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[CLDN12 claudin 12 \[Homo sapiens \]](#)

Official Symbol

[CLDN12](#)

Synonyms

CLDN12; claudin 12; claudin-12

Gene ID

[9069](#)

mRNA Refseq

[NM_001185072](#)

Protein Refseq

[NP_001172001](#)

MIM

[611232](#)

UniProt ID

[P56749](#)

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