

## Recombinant Human CLDN7, GST-tagged

Cat. No. CLDN7-11299H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human CLDN7 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 6-210a.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. Differential expression of this gene has been observed in different types of malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc.. Alternatively spliced transcript variants encoding different isoforms have been found.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	CLDN7 claudin 7 [ Homo sapiens ]
<b>Official Symbol</b>	CLDN7
<b>Synonyms</b>	CLDN7; claudin 7; CEPTRL2, CPETRL2; claudin-7; Hs.84359; clostridium perfringens enterotoxin receptor-like 2; CLDN-7; CEPTRL2; CPETRL2; claudin-1;
<b>Gene ID</b>	1366
<b>mRNA Refseq</b>	NM_001185022
<b>Protein Refseq</b>	NP_001171951
<b>MIM</b>	609131
<b>UniProt ID</b>	O95471
<b>Chromosome Location</b>	17
<b>Pathway</b>	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem;
<b>Function</b>	identical protein binding; protein binding; structural molecule activity;

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