Recombinant Human CLDN16, GST-tagged

Cat. No. CLDN16-11288H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLDN16 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-150a.a.
Description	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. It is found primarily in the kidneys, specifically in the thick ascending limb of Henle, where it acts as either an intercellular pore or ion concentration sensor to regulate the paracellular resorption of magnesium ions. Defects in this gene are a cause of primary hypomagnesemia, which is characterized by massive renal magnesium wasting with hypomagnesemia and hypercalciuria, resulting in nephrocalcinosis and renal failure. This gene and the CLDN1 gene are clustered on chromosome 3q28.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing

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	cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	CLDN16 claudin 16 [Homo sapiens]
Official Symbol	CLDN16
Synonyms	CLDN16; claudin 16; claudin-16; HOMG3; hypomagnesemia 3; with hypercalciuria and nephrocalcinosis; paracellin 1; PCLN1; PCLN-1; paracellin-1; hypomagnesemia 3, with hypercalciuria and nephrocalcinosis;
Gene ID	10686
mRNA Refseq	NM_006580
Protein Refseq	NP_006571
MIM	603959
UniProt ID	Q9Y5I7
Chromosome Location	3q28
Pathway	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

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	junction organization, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem;
Function	identical protein binding; magnesium ion transmembrane transporter activity; structural molecule activity;

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