

Recombinant Full Length Human CLDN16 Protein, GST-tagged

Cat. No. CLDN16-2045HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human CLDN16 full-length ORF (NP_006571.1, 1 a.a. - 305 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 305 amino acids

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. [provided by RefSeq, Jun 2010]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	60.2 kDa
AA Sequence	<p>MTSRTPLLVTACLYYSYCNSRHLQQGVRKSKRPVFSHCQVPETQKTDTRHLSGARA GVCPCCHPDGLLATMRDLLQYIACFFAFFSAGFLIVATWTDCWMVNADDSLEVSTK CRGLWWEVCVTNAFDGIRTCDEYDSILAEHPLKLVVTRALMITADILAGFGFLTLLGL DCVKFLPDEPYIKVRIKCFVAGATLLIAGTPGIIGSVWYAVDVYVERSTLVLHNIFLGIQY KFGWSCWLG MAGSLGCFLAGAVLTCCLYLFKDVGPERNYPYSLRKAYS AAGVSMA KSYSAPRTETAKMYAVDTRV</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
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	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

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mRNA Refseq	NM_006580
Protein Refseq	NP_006571
MIM	603959
UniProt ID	Q9Y5I7

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