

Recombinant Mouse Cldn2 Protein, MYC/DDK-tagged

Cat. No. Cldn2-900M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of full-length mouse claudin 2 (Cldn2), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.

Species Mouse

Source HEK293

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. The knockout mice lacking this gene display normal appearance, activity, growth and behavior, but are defective in the leaky and cation-selective paracellular permeability properties of renal proximal tubules. The proteins encoded by this gene and another family member Cldn12 are also critical for vitamin D-dependent Ca²⁺ absorption between enterocytes.

Molecular Mass 24.5 kDa

Purity >80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Cldn2 claudin 2 [Mus musculus (house mouse)]

Official Symbol Cldn2

Synonyms Cldn2; claudin 2; AL022813; claudin-2

Gene ID 12738

mRNA Refseq NM_016675

Protein Refseq NP_057884

UniProt ID O88552

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