

Product Information

MemDX™ Membrane Protein Mouse Cldn2 (Claudin 2) Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX2254K**

This product is for research use only and is not intended for diagnostic use.

This product is a Mouse Cldn2 membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Mouse

Target Protein

Cldn2

Protein Length

Full Length

Protein Class

Receptor

TMD

4

Sequence

MASLGVQLVGYILGLLGLLGTSIAMLLPNWRTSSYVGASIVTAVGFSKGLWMECATHSTGITQCDIYSTLLGLPADIQAAQAMMVTSS

Product Description

Expression Systems

in vitro *E.coli* expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

Cldn2

Full Name

Claudin 2

Introduction

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.

Alternative Names

Cldn2; AL022813; claudin-2; Claudin 2

Gene ID

[12738](#)

UniProt ID

[O88552](#)