

Product Information

MemDX™ Membrane Protein Mouse Cldn19 (Claudin 19) Expressed *in vitro* E.coli **expression system, Full Length**

Cat. No.: **MPX2233K**

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

This product is a Mouse Cldn19 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

Cldn19

Protein Length

Full Length

Protein Class

Receptor

TMD

4

Sequence

MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAITAVGLYEGLWMSCASQSTGQVQCKLYDSLLALDGHIQSARALMVV

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

Cldn19

Full Name

Claudin 19

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. siRNA knockdown of this gene in mice develops the FHHNC (familial hypomagnesemia with hypercalciuria and nephrocalcinosis) symptoms of chronic renal wasting of magnesium and calcium together with defective renal salt handling. The protein encoded by this gene interacts with another family member, Claudin 16, and their interaction is required for their assembly into tight junctions and for renal reabsorption of magnesium. This protein is a constituent of tight junctions in the Schwann cells of peripheral myelinated nerves and the gene deficiency affects the nerve conduction of peripheral myelinated fibers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

Cldn19; claudin-19; Claudin 19

Gene ID

[242653](#)

UniProt ID

[Q9ET38](#)