

Product Information

MemDX™ Membrane Protein Human CLDN12 (Claudin 12) Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX2286K**

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

This product is a Human CLDN12 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

Human

Target Protein

CLDN12

Protein Length

Full Length

Protein Class

Receptor

TMD

4

Sequence

MGCRDVHAATVLSFLCGIASVAGLFAGTLLPNWRKLRRLITFNRNEKNLTVYTGLWVKARYDGSSDCLMYDTTWYSSVDQLDLRVL

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

CLDN12

Full Name

Claudin 12

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. This gene is expressed in the inner ear and bladder epithelium, and it is over-expressed in colorectal carcinomas. This protein and claudin 2 are critical for vitamin D-dependent Ca²⁺ absorption between enterocytes. Multiple alternatively spliced transcript variants encoding the same protein have been found.

Alternative Names

CLDN12; claudin-12; Claudin 12

Gene ID

[9069](#)

UniProt ID

[P56749](#)