

Product Information

MemDX™ Membrane Protein Human CLDN14 (Claudin 14) Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX2279K**

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

This product is a Human CLDN14 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

CLDN14

Protein Length

Full Length

Protein Class

Receptor

TMD

4

Sequence

MASTAVQLLGFLLSFLGMVGTLLTILPHWRRTAHVGTNILTAVSYLKGLWMECVWHSTGIYQCQIYRSLALPQDLQAARALMVISO

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

CLDN14

Full Name

Claudin 14

Introduction

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. The encoded protein also binds specifically to the WW domain of Yes-associated protein. Defects in this gene are the cause of an autosomal recessive form of nonsyndromic sensorineural deafness. It is also reported that four synonymous variants in this gene are associated with kidney stones and reduced bone mineral density. Several transcript variants encoding the same protein have been found for this gene.

Alternative Names

CLDN14; DFNB29; claudin-14; Claudin 14

Gene ID

[23562](#)

UniProt ID

[Q95500](#)