

# Product Information

## **MemDX™ Recombinant Human Claudin-1 Membrane Protein in Virus-Like Particles (MP-VLPs)**

Cat. No.: **MPVLP-040**

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

This product is recombinant Human Claudin-1 in VLPs form. This product is produced from mammalian cells by co-expressing the retroviral structural core polyprotein (gag) and the target membrane protein. MP-VLPs display highly-expressed copies of membrane proteins in their native conformation, providing an alternative to membrane protein stable cell lines, membrane preparations, detergent-solubilized proteins and other membrane protein preparation strategies. MP-VLPs can be used for a wide range of applications in antibody production, antibody discovery, antibody characterization, binding assays and functional assays.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

Claudin-1

#### **Protein Length**

Full length

#### **Protein Class**

Host-virus interaction

#### **TMD**

4

### Product Description

#### **Application**

ELISA; Antibody Production; Antibody Discovery; Antibody Characterization; Binding Assays; Functional Assays

#### **Expression Systems**

HEK293 expression system

#### **Protein Format**

Membrane Protein-Virus Like Particles (MP-VLPs)

#### **Form**

Liquid

#### **Storage**

The product should be stored at -20°C or lower. Avoid freeze-thaw cycles.

## Target

### Target Protein

Claudin-1

### Full Name

Claudin 1

### 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. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome.

### Alternative Names

CLD1; SEMP1; ILVASC; CLDN1; senescence-associated epithelial membrane protein 1

### Gene ID

[9076](#)

### UniProt ID

[Q95832](#)