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Product Information

MemDX™ Recombinant Human Claudin 18.2 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **MPVLP-001**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human Claudin 18.2 in VLPs form. This product is produced from HEK293 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 18.2

Protein Length
Full length (1-261aa)

Protein Class
Cell-adhesion; GPCR

Molecular Weight
27.8 kDa

TMD
4

Sequence
MAVTACQGLGFVVSLIGIAGIIAATCMDQWSTQDLYNNPVTAVFNYQGLWRSCVRESSGFTECRGYFTLLGLPAMLQAVRALMIVG

Product Description

Activity
Yes

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

Expression Systems

HEK293 expression system

Tag

Tag free

Protein Format

Membrane Protein-Virus Like Particles (MP-VLPs)

Form

Liquid

Purity

>95% as determined by HPLC

Buffer

Supplied as 0.22um filtered solution in PBS(pH 7.4).

Storage

The product should be stored at -20°C or -70°C. Please do not repeated freeze-thaw cycles.

Target

Target Protein

Claudin 18.2

Full Name

Claudin 18

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 upregulated in patients with ulcerative colitis and highly overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells. Alternatively spliced transcript variants encoding different isoforms have been identified.

Alternative Names

SFTA5; SFTPJ; claudin-18; Claudin 18.2; Claudin18; Claudin-18; CLDN18; DKFZp564B2062; surfactant associated 5; surfactant associated protein J; surfactant, pulmonary associated protein J

Gene ID

51208

UniProt ID

P56856

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