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Datasheet for ABIN7199152  
**Claudin 18.2 protein-VLP**

### Overview

Quantity:	100 µg
Target:	Claudin 18.2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP

### Product Details

Purpose:	Human Claudin-18.2 Full Length Protein-VLP (HEK293)
Sequence:	Met 1 - Val 261
Characteristics:	Human Claudin-18.2 Full Length Protein-VLP (CL2-H52P7) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Val 261 (Accession # P56856-2).
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

### Target Details

Target:	Claudin 18.2
Alternative Name:	Claudin-18.2
Background:	Synonyms: Claudin-18.2,CLDN18,Claudin-18, Description: Claudins (CLDNs) are a family of proteins that form tight junctions and maintain the polarity of epithelial and endothelial cells. CLDN18 is specifically expressed in the stomach and lung. Of the two CLDN18 isoform transcripts produced by alternative splicing, CLDN18.2 is a highly selective gastric lineage marker that determines the gastric phenotype in a neoplastic

## Target Details

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condition, whereas CLDN18.1 is lung specific. CLDN18.2 is a highly selective gastric lineage antigen expressed exclusively on short-lived differentiated gastric epithelial cells where it has only limited accessibility to antibody drugs.<sup>14,15</sup> CLDN18.2 is maintained during the course of malignant transformation and thus frequently displayed on the surface of human gastric cancer cells.

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Molecular Weight: 27.7 kDa

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NCBI Accession: [NP\\_001002026](#)

## Application Details

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Application Notes: The protein has a calculated MW of 27.7 kDa.

Comment: Virus-like particles (VLPs) are formed by self-assembly of envelop/capsid proteins from viruses. Membrane Proteins can be constituted in-situ with VLPs produced from HEK293 cell cultures. These VLPs concentrate conformationally intact membrane proteins directly on the cell surface and produce soluble, high-concentration proteins perfect for immunization and antibody screening.

The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells in vivo and surface attachment for phage display.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: PBS, pH 7.4

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Storage: -80 °C

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Storage Comment: -70°C