

## Datasheet for ABIN7448163 Claudin 6 Protein-VLP (CLDN6) (AA 1-220) (Biotin)



Overview

Images

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Quantity:	100 µL
Target:	Claudin 6 (CLDN6)
Protein Characteristics:	AA 1-220
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP
Biological Activity:	Active
Purification tag / Conjugate:	This Claudin 6 protein is labelled with Biotin.
Application:	ELISA, Immunogen (Imm), Functional Studies (Func), Surface Plasmon Resonance (SPR)
Product Details	
Purpose:	Biotinylated Human Claudin 6 Protein-VLP
Sequence:	Met1-Val220
Characteristics:	Recombinant Biotinylated Full length Human Claudin 6 Protein-VLP is expressed from
	HEK293.It contains Met1-Val220.
Purity:	> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per $\mu$ g by the LAL method.

Biological Activity Comment: The affinity constant of 0.65 nM as determined in SPR assay (Biacore T200).

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#### Target Details

Target:	Claudin 6 (CLDN6)
Alternative Name:	Claudin 6 (CLDN6 Products)
Background:	Claudin-6 is a multipass transmembrane protein in the Claudin family. Claudin-6 is expressed by epithelial cells where it participates in tissue development and the maintenance of tight junction integrity. Human Claudin-6 shares 88 % and 86 % amino acid sequence identity with mouse and rat Claudin-6, respectively.
Molecular Weight:	24.5 kDa.
UniProt:	P56747
Pathways:	Hepatitis C

### Application Details

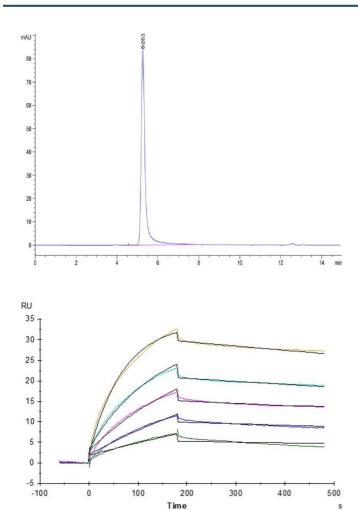
Application Notes:	<ul> <li>Antibody Discovery: Immunization, Screening, Functional Characterization</li> <li>Affinity determination: ELISA, SPR</li> <li>In vivo pharmacokinetic analysis</li> <li>CMC method development</li> <li>CAR-T Positive Rate Detection</li> <li>Blood sample determination: ELISA</li> </ul>
Comment:	Virus-like particles (VLPs) are formed from the outer capsid protein of a virus and are tiny nanoparticles formed by the automatic assembly of one or more capsid proteins. VLPs do not contain viral infectious genomes, so they are relatively safe during production operations. The SAMS <sup>™</sup> protein engineering platform has been used to express a series of biotinylated, non-biotinylated, and fluorescently-labeled VLP-displayed antigens. They are suitable for SPR, ELISA, CAR-T positive rate detection, and other experimental scenarios.
	Virus-Like Particles (VLPs) are highly immunogenic, meaning that they can elicit a strong immune response in the host. VLPs are recognized by the immune system and are taken up by antigen-presenting cells (APCs) such as dendritic cells. Once taken up by APCs, VLPs are processed and presented to T cells, which can trigger the activation of B cells to produce antibodies against the displayed antigen. Because VLPs resemble the structure and composition of native viruses, they are highly effective at inducing both humoral and cellular immune responses.
	Generally, VLPs range in size from approximately 20 to 200 nanometers (nm). Compared to a cell-based immunization approach, their smaller size can optimize the immune response to

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#### Application Details

	target the specific antigen displayed on the surface of the engineered VLPs.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in PBS, 300 mM L-arginine ( pH 7.4).
Storage:	-80 °C
Storage Comment:	Valid for 6 months from date of receipt when stored at -80°C., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Images



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 1.** The purity of Biotinylated Human Claudin 6 VLP is greater than 95 % as determined by SEC-HPLC.

#### **Surface Plasmon Resonance**

**Image 2.** Biotinylated Human Claudin 6 VLP captured on CM5 Chip via Streptavidin can bind Anti-Claudin6 Antibody with an affinity constant of 0.65 nM as determined in SPR assay (Biacore T200).

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