

Datasheet for ABIN7448164

Claudin 6 Protein-VLP (CLDN6) (AA 1-219)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	Claudin 6 (CLDN6)
Protein Characteristics:	AA 1-219
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	VLP
Biological Activity:	Active
Application:	ELISA, Immunogen (Imm), Functional Studies (Func), Surface Plasmon Resonance (SPR)

Product Details

Purpose:	Mouse Claudin 6 Protein-VLP
Sequence:	Met1-Val219
Characteristics:	Recombinant Mouse Claudin 6 Protein-VLP is expressed from HEK293. It contains Met1-Val219.
Purity:	> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Mouse Claudin 6 VLP at 5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Claudin6 Antibody, mFc Tag with the EC50 of 6.6ng/ml determined by ELISA.

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:	24.60 kDa.
UniProt:	Q9Z262
Pathways:	Hepatitis C

Application Details

Application Notes:	<ul style="list-style-type: none">• Antibody Discovery: Immunization, Screening, Functional Characterization• Affinity determination: ELISA, SPR• In vivo pharmacokinetic analysis• CMC method development• CAR-T Positive Rate Detection• Blood sample determination: ELISA
Comment:	<p>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™ 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.</p> <p>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.</p> <p>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</p>

Application Details

target the specific antigen displayed on the surface of the engineered VLPs.

Restrictions: For Research Use only

Handling

Format: Liquid

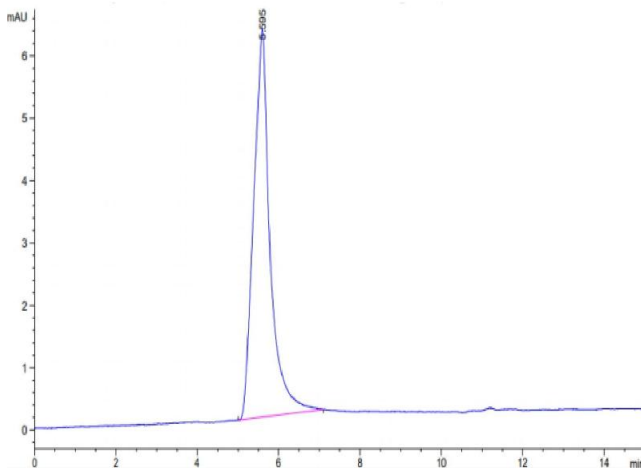
Buffer: Supplied as 0.22 μ m filtered solution in PBS (pH 7.4). Notice: If you need it for immunization, Do Not use any adjuvant.

Storage: -80 °C

Storage Comment: Valid for 12 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

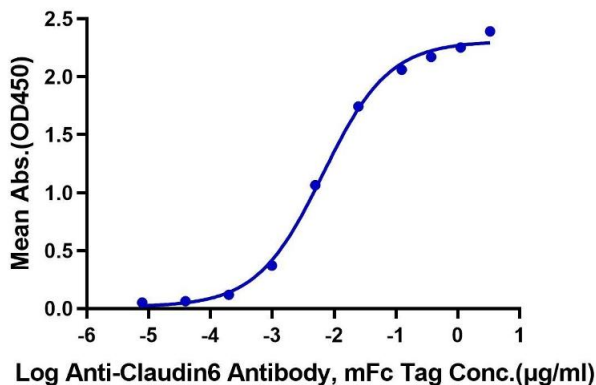
Images



Size-exclusion chromatography-High Pressure Liquid Chromatography

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

Mouse Claudin 6 VLP ELISA
0.5 μ g Mouse Claudin 6 VLP Per Well



ELISA

Image 2. Immobilized Mouse Claudin 6 VLP at 5 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Anti-Claudin6 Antibody, mFc Tag with the EC50 of 6.6 ng/mL determined by ELISA.