Datasheet for ABIN7491605

Claudin 6 Protein-VLP (CLDN6)

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Overview

Quantity:	100 µg
Target:	Claudin 6 (CLDN6)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP

Product Details

Purpose:	Human CLDN6 full length protein-VLP
Characteristics:	Full Length Transmembrane Proteins

Target Details

Target:	Claudin 6 (CLDN6)
Alternative Name:	CLDN6 (CLDN6 Products)
Background:	Claudin 6, Claudin-6, Skullin,Claudin6 Description: 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. This gene encodes a component of tight junction strands, which is a member of the claudin family. The protein is an integral membrane protein and is one of the entry cofactors for hepatitis C virus. The gene methylation may be involved in esophageal tumorigenesis. This

Target Details

	gene is adjacent to another family member CLDN9 on chromosome 16.
Molecular Weight:	The human full length CLDN6 Protein has a MW of 23 kDa
UniProt:	P56747
Pathways:	Hepatitis C

Application Details

Application Notes:	• Applications for VLPs: • ELISA • SPR affinity analysis • Phage display screening • Immunization • Cell based assays • CAR-T cell screening
Comment:	Virus-like particles (VLPs) are self-assembling multi-protein nanoparticles with similar structural organization and conformation as viruses but without viral genome. The size of the VLP is about 100-150nm. It is secreted from the surface of the cells that express target membrane proteins (MPs). The purified VLPs have the target MPs inserted in a complete bilayer phospholipid membrane structure, mimic the natural membrane-penetrating state of the protein. VLPs can be used for routine biochemical analysis, including ELISA, SPR affinity analysis, phage display screenings, protein labeling and cell binding experiments, Flow virometry analysis, etc. It can also be used as functional protein antigens to develop active antibodies with high drug potentials because the target protein on VLP exhibits a state like its native state on the cell surface.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Supplied in 1xPBS (pH 7.4)
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.