Datasheet for ABIN7491602

Claudin 5 Protein (CLDN5)

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Overview

Quantity:	100 µg
Target:	Claudin 5 (CLDN5)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic

Product Details

Purpose:	Human CLDN5 full length protein-synthetic nanodisc
Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)

Target Details

Target:	Claudin 5 (CLDN5)
Alternative Name:	CLDN5 (CLDN5 Products)
Background:	AWAL, BEC1, CPETRL1, TMDVCF, TMVCF Description: 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. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2018]
Molecular Weight:	The human full length CLDN5 protein has a MW of 31.4 kDa

Target Details

UniProt:	O00501
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 • Protein cystal structure analysis
Comment:	Synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)
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.
Expiry Date:	12 months