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Datasheet for ABIN7491593 CLDN18.2 Protein

3 Images

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Overview

Quantity:	100 µg
Target:	CLDN18.2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human CLDN18.2 full length protein-synthetic nanodisc
Characteristics:	Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our 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.

Target Details

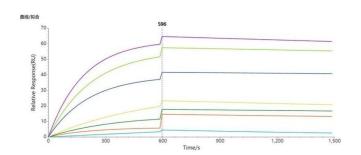
Target:	CLDN18.2
Background:	The protein encodes a member of the claudin family. Claudins are integral membrane proteins
	and components of tight junction strands. Tight junction strands serve as a physical barrier to
	prevent solutes and water from passing freely through the paracellular space between epithelial
	or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal
	transductions. This gene is upregulated in patients with ulcerative colitis and highly
	overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase

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Target Details	
	C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jun 2010]
Molecular Weight:	The human full length CLDN18.2 Protein has a MW of 27.5 kDa
UniProt:	P56856

Application Details

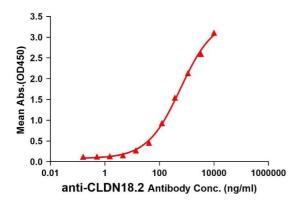
Comment:	Advantages of Synthetic Nanodiscs:
	Highly purified membrane proteins
	High solubility in aqueous solutions
	High stability
	Proteins are in a native membrane environment and remain biologically active
	No detergent and can be used for cell-based assays
	No MSP backbone proteins
	Limitations of Synthetic Nanodiscs:
	Intolerant to acids and high concentrations of divalent metal ions
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).
	Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
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
1- 2	

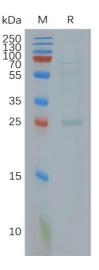


Surface Plasmon Resonance

Image 1. Human C.2-Nanodisc can bind Anti-C.2 antibody (ABIN7477985 and ABIN7490908) with an affinity constant of 1.619 nM as determined in a SPR assay.

ELISA assay to evaluate CLDN18.2-Nanodisc 0.2µg Human CLDN18.2 Nanodisc per well





ELISA

Image 2. Elisa plates were added with Flag Tag C.2-Nanodisc (0.2 µg/per well) on an anti-Flag monoclonal antibody pre-coated (0.2 µg/per well) plate. Serial diluted anti- C.2 monoclonal antibody (ABIN7477985 and ABIN7490908) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti- C.2 monoclonal antibody binding with C.2-Nanodisc is 593.6 ng/mL.

SDS-PAGE

Image 3. Human C.2-Nanodisc, Flag Tag on SDS-PAGE

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