

Datasheet for ABIN7491588 CD81 Protein (CD81)

2 Images



Overview

Quantity:	100 µg
Target:	CD81
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human CD81 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

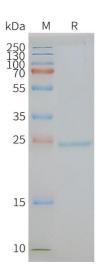
Target:	CD81
Alternative Name:	CD81 (CD81 Products)
Background:	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also
	known as the tetraspanin family. Most of these members are cell-surface proteins that are
	characterized by the presence of four hydrophobic domains. The proteins mediate signal
	transduction events that play a role in the regulation of cell development, activation, growth and
	motility. This encoded protein is a cell surface glycoprotein that is known to complex with

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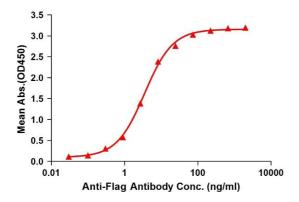
	integrins. This protein appears to promote muscle cell fusion and support myotube
	maintenance. Also it may be involved in signal transduction. This gene is localized in the tumor-
	suppressor gene region and thus it is a candidate gene for malignancies. Two transcript
	variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul
	2014]
Molecular Weight:	The human full length CD81 protein has a MW of 25.6 kDa
Molecular Weight: UniProt:	The human full length CD81 protein has a MW of 25.6 kDa P60033

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 fo
	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



ELISA assay to evaluate CD81-Nanodisc 0.2µg Human CD81-Nanodisc per well



SDS-PAGE

Image 1. Human CD81-Nanodisc, Flag Tag on SDS-PAGE

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag CD81-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CD81-Nanodisc is 3.551 ng/mL.

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