

Datasheet for ABIN7491584 CD47 Protein (CD47)

2 Images



Overview

Quantity:	100 µg
Target:	CD47
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human CD47 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.

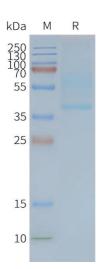
Target Details

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Background:	A membrane protein involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C- terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression
	on Rh erythrocytes.

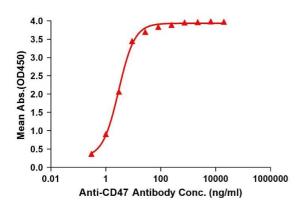
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Target Details		
Molecular Weight:	The human full length CD47 protein has a MW of 35.2 kDa	
UniProt:	Q08722	
Application Details		
Comment:	Advantages of Synthetic Nanodiscs:	

Comment.	Auvantages of Synthetic Nanouses.
	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



ELISA assay to evaluate CD47-Nanodisc 0.2µg Human CD47-Nanodisc per well



SDS-PAGE

Image 1. Human CD47-Nanodisc, Flag Tag on SDS-PAGE

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag CD47-Nanodisc (0.2 µg/per well). Serial diluted anti-CD47 monoclonal antibody (ABIN7093068 and ABIN7272598) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CD47 monoclonal antibody binding with CD47-Nanodisc is 2.959 ng/mL.

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