# ANTIBODIES ONLINE

Datasheet for ABIN7491673 **GPRC5D Protein** 

2 Images



Overview

Quantity:	100 µg
Target:	GPRC5D
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

### Product Details

Purpose:	Human GPRC5D 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.

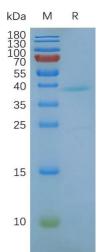
## Target Details

Target:	GPRC5D
Alternative Name:	GPRC5D (GPRC5D Products)
Background:	The protein encoded by this gene is a member of the G protein-coupled receptor family. Recent studies demonstrate that GPRC5D is expressed on malignant bone marrow plasma cells, whereas normal tissue expression is limited to the hair follicle. It may represent a potential target for effector-cell-mediated therapy to treat plasma-cell disorders like MM.
Molecular Weight:	The human full length GPRC5D Protein has a MW of 38.6 kDa

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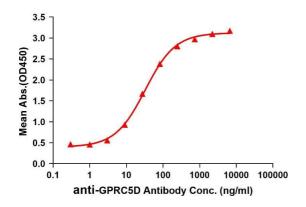
Target Details	
UniProt:	Q9NZD1
Application Details	
Comment:	Advantages of Synthetic Nanodiscs: <ul> <li>Highly purified membrane proteins</li> </ul>
	<ul><li>Highly purified membrane proteins</li><li>High solubility in aqueous solutions</li><li>High stability</li></ul>
	Proteins are in a native membrane environment and remain biologically active
	<ul><li>No detergent and can be used for cell-based assays</li><li>No MSP backbone proteins</li></ul>
	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

#### Images



ELISA assay to evaluate GPRC5D-Nanodisc





#### SDS-PAGE

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

#### ELISA

**Image 2.** Elisa plates were added with Flag Tag GD-Nanodisc (0.5 µg/per well) on an anti-Flag monoclonal antibody pre-coated (0.5 µg/per well) plate. Serial diluted anti-GD monoclonal antibody (ABIN7092891, ABIN7272748 and ABIN7289737) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GD monoclonal antibody binding with GD-Nanodisc is 32.86 ng/mL.

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