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Datasheet for ABIN7538124 **ADGRG1 Protein**

2 Images



Overview

Quantity:	50 µg
Target:	ADGRG1
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human ADGRG1 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

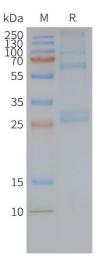
Target:	ADGRG1
Background:	A member of the G protein-coupled receptor family and regulates brain cortical patterning. The encoded protein binds specifically to transglutaminase 2, a component of tissue and tumor
	stroma implicated as an inhibitor of tumor progression. Mutations in this gene are associated
	with a brain malformation known as bilateral frontoparietal polymicrogyria.
Molecular Weight:	The human full length ADGRG1 protein has a MW of 77.7 kDa
UniProt:	Q9Y653

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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).
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.
Buffer: Storage:	
	Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	Normally 5 % - 8 % trehalose is added as protectants before lyophilization. -20 °C,-80 °C
Storage:	Normally 5 % - 8 % trehalose is added as protectants before lyophilization. -20 °C,-80 °C Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for

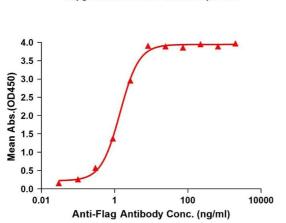
Images



SDS-PAGE

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

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ELISA assay to evaluate ADGRG1-Nanodisc 0.2µg Human ADGRG1-Nanodisc per well

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag AD-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 AD-Nanodisc is 1.419 ng/mL.

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