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Datasheet for ABIN7491535 **ADGRE5 Protein**

2 Images



Overview

Quantity:	100 µg
Target:	ADGRE5
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human ADGRE5 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:	ADGRE5
Background:	This gene encodes a member of the EGF-TM7 subfamily of adhesion G protein-coupled
	receptors, which mediate cell-cell interactions. These proteins are cleaved by self-catalytic
	proteolysis into a large extracellular subunit and seven-span transmembrane subunit, which
	associate at the cell surface as a receptor complex. The encoded protein may play a role in cell
	adhesion as well as leukocyte recruitment, activation and migration, and contains multiple
	extracellular EGF-like repeats which mediate binding to chondroitin sulfate and the cell surface

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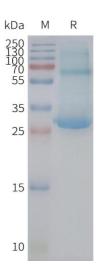
Target Details

	complement regulatory protein CD55. Expression of this gene may play a role in the
	progression of several types of cancer. Alternatively spliced transcript variants encoding
	multiple isoforms with 3 to 5 EGF-like repeats have been observed for this gene. This gene is
	found in a cluster with other EGF-TM7 genes on the short arm of chromosome 19. [provided by
	RefSeq, Jun 2011]
Molecular Weight:	The human full length ADGRE5 protein has a MW of 87.1 kDa
UniProt:	P48960

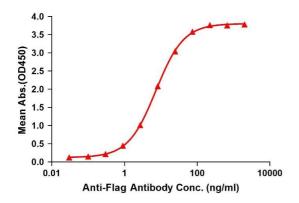
Application Details

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

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ELISA assay to evaluate ADGRE5-Nanodisc 0.2µg Human ADGRE5-Nanodisc per well



SDS-PAGE

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

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 7.327 ng/mL.

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