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Datasheet for ABIN7538246

FZD4 Protein

Images



Overview

Quantity:	50 µg
Target:	FZD4
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human FZD4 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:	FZD4
Alternative Name:	FZD4 (FZD4 Products)
Background:	A member of the frizzled gene family. Members of this family encode seven-transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of
	signaling proteins. Most frizzled receptors are coupled to the beta-catenin canonical signaling
	pathway. This protein may play a role as a positive regulator of the Wingless type MMTV
	integration site signaling pathway. A transcript variant retaining intronic sequence and encoding

Target Details

	a shorter isoform has been described, however, its expression is not supported by other experimental evidence.
Molecular Weight:	The human full length FZD4 protein has a MW of 60.3 kDa
UniProt:	Q9ULV1
Pathways:	WNT Signaling, Hormone Transport, Sensory Perception of Sound

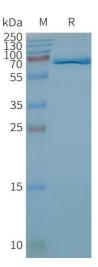
Application Detai	
Comment:	Advantages of Synthetic Nanodiscs:
	Highly purified membrane proteins
	High solubility in aqueous solutions
	High stability
	 Proteins are in a native membrane environment and remain biologically active
	 No detergent and can be used for cell-based assays
	No MSP backbone proteins
	Limitations of Synthetic Nanodiscs:
	Intolerant to acids and high concentrations of divalent metal ions

Restrictions:

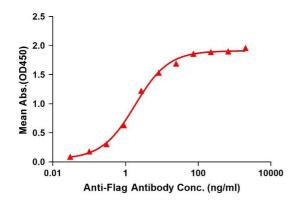
For Research Use only

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



ELISA assay to evaluate FZD4-Nanodisc 0.2µg Human FZD4-Nanodisc per well



SDS-PAGE

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

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag - 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 -Nanodisc is 1.843 ng/mL.