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Datasheet for ABIN7491747 TM4SF1 Protein

2 Images



Overview

Quantity:	100 µg
Target:	TM4SF1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human TM4SF1 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.

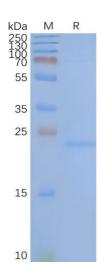
Target Details

Target:	TM4SF1
Alternative Name:	TM4SF1 (TM4SF1 Products)
Background:	The protein is a member of the transmembrane 4 superfamily, also known as the tetraspanin
	family. Most of these members are cell-surface proteins that are characterized by the presence
	of four hydrophobic domains. The proteins mediate signal transduction events that play a role
	in the regulation of cell development, activation, growth and motility. This encoded protein is a
	cell surface antigen and is highly expressed in different carcinomas.

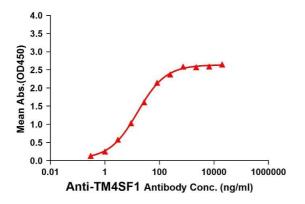
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Target Details

rarget Details	
Molecular Weight:	The human full length TM4SF1 protein has a MW of 21.6 kDa
UniProt:	P30408
Application Details	
Comment:	Advantages of Synthetic Nanodiscs:
	Highly purified membrane proteinsHigh solubility in aqueous solutionsHigh 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 fo
	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 TM4SF1-Nanodisc 0.2µg Human TM4SF1-Nanodisc per well



SDS-PAGE

Image 1. Human TM4SF1-Nanodisc, Flag Tag on SDS-PAGE

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag TM4SF1-Nanodisc (0.2 µg/per well). Serial diluted anti-TM4SF1 monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-TM4SF1 monoclonal antibody binding with TM4SF1-Nanodisc is 15.97 ng/mL.

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