# ANTIBODIES ONLINE

Datasheet for ABIN7538226 **EMP2 Protein** 

2 Images



### Overview

Quantity:	50 µg
Target:	EMP2
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

## **Product Details**

Purpose:	Human EMP2 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:	EMP2
Alternative Name:	EMP2 (EMP2 Products)
Background:	A tetraspan protein of the PMP22/EMP family. The encoded protein regulates cell membrane
	composition. It has been associated with various functions including endocytosis, cell signaling,
	cell proliferation, cell migration, cell adhesion, cell death, cholesterol homeostasis, urinary
	albumin excretion, and embryo implantation. It is known to negatively regulate caveolin-1, a
	scaffolding protein which is the main component of the caveolae plasma membrane

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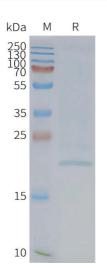
	invaginations found in most cell types. Through activation of PTK2 it positively regulates
	vascular endothelial growth factor A. It also modulates the function of specific integrin isomers
	in the plasma membrane. Up-regulation of this gene has been linked to cancer progression in
	multiple different tissues. Mutations in this gene have been associated with nephrotic
	syndrome type 10 (NPHS10).
Molecular Weight:	The human full length EMP2 protein has a MW of 19.2 kDa
UniProt:	P54851

# Application Details

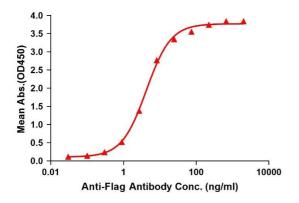
Comment:	Advantages of Synthetic Nanodiscs:
	Highly purified membrane proteins
	High solubility in aqueous solutions
	High stability
	Proteins are in a native membrane environment and remain biologically active
	No detergent and can be used for cell-based assays
	No MSP backbone proteins
	Limitations 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 Data:	10 months

Expiry Date:

12 months



#### ELISA assay to evaluate EMP2-Nanodisc 0.2µg Human EMP2-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 4.249 ng/mL.

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