antibodies

## Datasheet for ABIN3137429 PODXL Protein (AA 22-503) (rho-1D4 tag)





#### Overview

Quantity:	1 mg
Target:	PODXL
Protein Characteristics:	AA 22-503
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PODXL protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	HNGNETSTSA IKSSTVQSHQ SATTSTEVTT GHPVASTLAS TQPSNPTPFT TSTQSPSMPT
	STPNPTSNQS GGNLTSSVSE VDKTKTSSPS STAFTSSSGQ TASSGGKSGD SFTTAPTTTL
	GLINVSSQPT DLNTTSKLLS TPTTDNTTSP QQPVDSSPST ASHPVGQHTP AAVPSSSGST
	PSTDNSTLTW KPTTHKPLGT SEATQPLTSQ TPGITTLPVS TLQQSMASTV GTTTEEFTHL
	ISNGTPVAPP GPSTPSPIWA FGNYQLNCEP PIRPDEELLI LNLTRASLCE RSPLDEKEKL
	VELLCHSVKA SFKPAEDLCT LHVAPILDNQ AVAVKRIIIE TKLSPKAVYE LLKDRWDDLT
	EAGVSDMKLG KEGPPEVNED RFSLPLIITI VCMASFLLLV AALYGCCHQR ISQRKDQQRL
	TEELQTVENG YHDNPTLEVM ETPSEMQEKK VVNLNGELGD SWIVPLDNLT KDDLDEEEDT HL
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Podxl Protein (raised in Insect Cells) purified by multi-step, protein-specific process to</li> </ul>

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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Purification:	<ul> <li>Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:</li> <li>1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li> <li>2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.</li> <li>3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ul>
	<ul> <li>custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).</li> <li>When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.</li> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.</li> </ul>
	<ul> <li>ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> <li>This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.</li> <li>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</li> <li>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for</li> </ul>

Grade:

Endotoxin Level:

**Product Details** 

Crystallography grade

Protein is endotoxin-free.

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#### Target Details

<b>J</b>	
Target:	PODXL
Alternative Name:	PodxI (PODXL Products)
Background:	Involved in the regulation of both adhesion and cell morphology and cancer progression.
	Function as an anti-adhesive molecule that maintains an open filtration pathway between
	neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive
	molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of
	migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of
	apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane
	subdomain to set up inital epithelial polarization and the apical lumen formation during renal
	tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell
	migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-
	dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in
	cancer cells. {EC0:0000269 PubMed:11435469, EC0:0000269 PubMed:17311105}.
Molecular Weight:	52.4 kDa Including tag.
UniProt:	Q9R0M4
Pathways:	Tube Formation
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurante
	though.

# Restrictions:

Comment:

Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

For Research Use only

Protein has not been tested for activity yet. In cases in which it is highly likely that the

options with you in detail to assure that you receive your protein of interest.

recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

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### Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

### Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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