

Datasheet for ABIN3136991

PARD3 Protein (AA 1-1333) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	PARD3
Protein Characteristics:	AA 1-1333
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARD3 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MKVTVCFGRT RVVPCGDGR MKVFSLIQQA VTRYRKAVAK DPNYWIQVHR LEHGDGGILD LDDILCDVAD DKDRLVAVFD EQDPHHGGDG TSASFTGTQS PEIFGSELGT NNVSAFQPYQ ATSEIEVTPS VLRANMPLHV RRSSDPALTG LSTSVSDNNF SSEEPSRKNP TRWSTTAGFL KQNTAGSPKT CDRKKDENYR SLPRDPSSWS NQFQRDNARS SLSASHPMVD RWLEKQEQDE EGTEEDSSRV EPVGHADTGL ENMPNFSLDD MVKLVQVPND GGPLGIHVVP FSARGGRTL LLVKRLEKGG KAEQENLFHE NDCIVRINDG DLRNRRFEQA QHMFQAMRA RVIWFHVVPA ANKEQYEQLS QREKNNYS PG RFSPDSHCVA NRSVANNAPQ ALPRAPRLSQ PPEQLDAHPR LPHSAHASTK PPAAPALAPP SVLSTNVGSV YNTKKVGKRL NIQLKKGTEG LGFSITSRDV TIGGSAPIYV KNILPRGAAI QDGRKAGDR LIEVNGVDLA GKSQEEVSL LRSTKMEGT V SLLVFRQEEA FHPREMNAEP SQMQTPKETK AEDEDVVLTP DGTREFLTFE VPLNDSGSAG LGVS VKGNRS KENHADLGIF VKSIINGGAA SKDGRLRVND QLIAVNGESL LGKANQEAME TLRRSMSTEG NKRGMQLIV ARRISRCNEL RSPGSPAPE LPIETELDDR ERRISHSLYS
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GIEGLDESPT RNAALSRLMG KCQLSPTVNM PHDDTVMIED DRLPVLPPHL SDQSSSSSHD
DVGFMTEAG TWAKATISDS ADCSLSPDVD PVLAFQREGF GRQSMSEKRT KQFSDASQLD
FVKTRKSKSM DLVADETKLN TVDDQ RAGSP SRDVGPSLGL KKSSSLESQ TAVAEVTLNG
NIPFHRPRPR IIRGRGCNES FRAAIDKSYD KPMVDDDDDEG METLEEDTEE SSRSGRESVS
TSSDQPSYSL ERQMNGDPEK RDKTERKKDK AGKDKKKDRE KEKDKLKAKK GMLKGLGDMF
RFGKHKRDKK MEKMGRIKIQ DSFTSEEDRV RMKEEQERIQ AKTREFRERQ ARERDYAEIQ
DFHRTFGCDD ELLYGGMSSY EGCLALNARP QSPREGHLM TLYAQVKKPR SSKPGDSNRS
TPSNHDRIQR LRQEFQAKQ DEDVEDRRRT YSFEQSWSSS RPASQSGRHS VSVEVQVQRQ
RQEERESFQQ AQRQYSSLPR QSRKNASSIS QDSWEQNYAP GEGFQSAKEN PRYSSYQGSR
NGYLGGHGFN ARVMLETQEL LRQEQRRKEQ QLKKQPPADG VRGPFRQDVP PSPSQVARLN
RLQTPEKGRP FYS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Pard3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

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.

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 custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt 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.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

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.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

Product Details

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: PARD3

Alternative Name: Pard3 ([PARD3 Products](#))

Background: Adapter protein involved in asymmetrical cell division and cell polarization processes. Seems to play a central role in the formation of epithelial tight junctions. Targets the phosphatase PTEN to cell junctions. Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly. The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins. Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (By similarity). Involved in Schwann cell peripheral myelination. {ECO:0000250, ECO:0000269|PubMed:21949390}.

Molecular Weight: 150.0 kDa Including tag.

UniProt: [Q99NH2](#)

Pathways: [Cell-Cell Junction Organization](#)

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 guarantee though.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher

Application Details

molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

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.
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