

Datasheet for ABIN3094353

PARD3 Protein (AA 1-1356) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PARD3
Protein Characteristics:	AA 1-1356
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARD3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MKVTVCFGRT RVVPCGDGH MKVFSLIQQA VTRYRKAIK DPNYWIQVHR LEHGDGGILD</p> <p>LDDILCDVAD DKDRLVAVFD EQDPHHGGDG TSASSTGTQS PEIFGSELGT NNVSAFQPYQ</p> <p>ATSEIEVTPS VLRANMPLHV RRSSDPALIG LSTSVSDSNF SSEEPSRKNP TRWSTTAGFL</p> <p>KQNTAGSPKT CDRKKDENYR SLPRDTSNWS NQFQRDNARS SLSASHPMVG KWLEKQEQDE</p> <p>DGTEEDNSRV EPVGHADTGL EHIPNFSLDD MVKLVEVPND GGPLGIHVVP FSARGGRTL</p> <p>LLVKRLEKGG KAEHENLFRE NDCIVRINDG DLRNRRFEQA QHMFQRAMRT PIIWFHVVPA</p> <p>ANKEQYEQLS QSEKNYYSS RFSPDSQYID NRSVNSAGLH TVQRAPRLNH PPEQIDSHSR</p> <p>LPHSAHPSGK PPSAPASAPQ NVFSTTVSSG YNTKKIGKRL NIQLKKGTG LGFSITSRDV</p> <p>TIGGSAPIYV KNILPRGAAI QDGRKAGDR LIEVNGVDLV GKSQEEVSL LRSTKMEGTV</p> <p>SLLVFRQEDA FHPRELNAEP SQMQIPKETK AEDEDIVLTP DGTREFLTFE VPLNDSGSAG</p> <p>LGVSVKGNRS KENHADLGIF VKSIINGGAA SKDGRLRVND QLIAVNGESL LGKTNQDAME</p>

TLRRSMSTEG NKRGMQLIV ARRISKCNEL KSPGSPPGPE LPIETALDDR ERRISHSLYS
GIEGLDESPS RNAALSRLMG ESGKYQLSPT VNMPQDDTVI IEDDLPLVLP PHLSDQSSSS
SHDDVGFVTA DAGTWAKAAI SDSADCSLSP DVDPVLAFQR EGFRQSMSE KRTKQFSDAS
QLDFVKTRKS KSMDLGIAD TKLNTVDDQK AGSPSRDVGP SLGLKKSSSL ESLQTAAEV
TLNGDIPFHR PRPRIIRGRG CNESFRAAID KSYDKPAVDD DDEGMETLEE DTEESSRSGR
ESVSTASDQP SHSLERQMNG NQEKGDKTDR KDKTGKEKK KDRDKEKDKM KAKKGMLKGL
GDMFRFGKHR KDDKIEKTGK IKIQESFTSE EERIRMKQEQ ERIQAKTREF RERQARERDY
AEIQDFHRTF GCDELMYGG VSSYEGSMAL NARPQSPREG HMMDALYAQV KKPRNSKPSP
VDSNRSTPSN HDRIQLRQE FQQAQDEDV EDRRTYSFE QPWPNARPAT QSGRHSVSVE
VQMQRQRQEE RESSQQAQRQ YSSLPRQSRK NASSVSQDSW EQNYSPGEGF QSAKENPRYS
SYQGSRNLYL GGHGFNARVM LETQELLRQE QRRKEQMKK QPPSEGPSNY DSYKKVQDPS
YAPKGPFRQ DVPPSPSQA RLNLQTPEK GRPFYS

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to

Product Details

produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PARD3
Alternative Name:	PARD3 (PARD3 Products)
Background:	<p>Partitioning defective 3 homolog (PAR-3) (PARD-3) (Atypical PKC isotype-specific-interacting protein) (ASIP) (CTCL tumor antigen se2-5) (PAR3-alpha),FUNCTION: Adapter protein involved in asymmetrical cell division and cell polarization processes (PubMed:27925688, PubMed:10954424). Seems to play a central role in the formation of epithelial tight junctions (PubMed:27925688). Targets the phosphatase PTEN to cell junctions (By similarity). Involved in Schwann cell peripheral myelination (By similarity). Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly (By similarity). The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (PubMed:10934474). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (PubMed:19812038, PubMed:27925688). {ECO:0000250 UniProtKB:Q99NH2, ECO:0000250 UniProtKB:Q9Z340, ECO:0000269 PubMed:10934474, ECO:0000269 PubMed:10954424, ECO:0000269 PubMed:19812038, ECO:0000269 PubMed:27925688}.</p>
Molecular Weight:	151.4 kDa
UniProt:	Q8TEW0
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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months