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



Overview

Quantity:	1 mg
Target:	PARD3
Protein Characteristics:	AA 1-1356
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARD3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:

MKVTVCFGRT RVVVPCGDGH MKVFSLIQQA VTRYRKAIAK DPNYWIQVHR LEHGDGGILD LDDILCDVAD DKDRLVAVFD EQDPHHGGDG TSASSTGTQS PEIFGSELGT NNVSAFQPYQ ATSEIEVTPS VLRANMPLHV RRSSDPALIG LSTSVSDSNF SSEEPSRKNP TRWSTTAGFL KQNTAGSPKT CDRKKDENYR SLPRDTSNWS NQFQRDNARS SLSASHPMVG KWLEKQEQDE DGTEEDNSRV EPVGHADTGL EHIPNFSLDD MVKLVEVPND GGPLGIHVVP FSARGGRTLG LLVKRLEKGG KAEHENLFRE NDCIVRINDG DLRNRRFEQA QHMFRQAMRT PIIWFHVVPA ANKEQYEQLS QSEKNNYYSS RFSPDSQYID NRSVNSAGLH TVQRAPRLNH PPEQIDSHSR LPHSAHPSGK PPSAPASAPQ NVFSTTVSSG YNTKKIGKRL NIQLKKGTEG LGFSITSRDV TIGGSAPIYV KNILPRGAAI QDGRLKAGDR LIEVNGVDLV GKSQEEVVSL LRSTKMEGTV SLLVFRQEDA FHPRELNAEP SQMQIPKETK AEDEDIVLTP DGTREFLTFE VPLNDSGSAG LGVSVKGNRS KENHADLGIF VKSIINGGAA SKDGRLRVND QLIAVNGESL LGKTNQDAME TLRRSMSTEG NKRGMIQLIV ARRISKCNEL KSPGSPPGPE LPIETALDDR ERRISHSLYS

GIEGLDESPS RNAALSRIMG ESGKYQLSPT VNMPQDDTVI IEDDRLPVLP PHLSDQSSSS
SHDDVGFVTA DAGTWAKAAI SDSADCSLSP DVDPVLAFQR EGFGRQSMSE KRTKQFSDAS
QLDFVKTRKS KSMDLGIADE TKLNTVDDQK AGSPSRDVGP SLGLKKSSSL ESLQTAVAEV
TLNGDIPFHR PRPRIIRGRG CNESFRAAID KSYDKPAVDD DDEGMETLEE DTEESSRSGR
ESVSTASDQP SHSLERQMNG NQEKGDKTDR KKDKTGKEKK KDRDKEKDKM KAKKGMLKGL
GDMFRFGKHR KDDKIEKTGK IKIQESFTSE EERIRMKQEQ ERIQAKTREF RERQARERDY
AEIQDFHRTF GCDDELMYGG VSSYEGSMAL NARPQSPREG HMMDALYAQV KKPRNSKPSP
VDSNRSTPSN HDRIQRLRQE FQQAKQDEDV EDRRRTYSFE QPWPNARPAT QSGRHSVSVE
VQMQRQRQEE RESSQQAQRQ YSSLPRQSRK NASSVSQDSW EQNYSPGEGF QSAKENPRYS
SYQGSRNGYL GGHGFNARVM LETQELLRQE QRRKEQQMKK QPPSEGPSNY DSYKKVQDPS
YAPPKGPFRQ DVPPSPSQVA RLNRLQTPEK 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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 posttranslational 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!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:

PARD3

Alternative Name:

PARD3 (PARD3 Products)

Background:

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,

Target Details

rarget Details	
	ECO:0000269 PubMed:19812038, ECO:0000269 PubMed:27925688}.
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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)