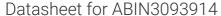
antibodies .- online.com





MRCKG Protein (AA 1-1551) (Strep Tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	MRCKG (CDC42BPG)
Protein Characteristics:	AA 1-1551
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MRCKG protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MERRLRALEQ LARGEAGGCP GLDGLLDLLL ALHHELSSGP LRRERSVAQF LSWASPFVSK VKELRLQRDD FEILKVIGRG AFGEVTVVRQ RDTGQIFAMK MLHKWEMLKR AETACFREER DVLVKGDSRW VTTLHYAFQD EEYLYLVMDY YAGGDLLTLL SRFEDRLPPE LAQFYLAEMV LAIHSLHQLG YVHRDVKPDN VLLDVNGHIR LADFGSCLRL NTNGMVDSSV AVGTPDYISP EILQAMEEGK GHYGPQCDWW SLGVCAYELL FGETPFYAES LVETYGKIMN HEDHLQFPPD VPDVPASAQD LIRQLLCRQE ERLGRGGLDD FRNHPFFEGV DWERLASSTA PYIPELRGPM DTSNFDVDDD TLNHPGTLPP PSHGAFSGHH LPFVGFTYTS GSHSPESSSE AWAALERKLQ CLEQEKVELS RKHQEALHAP TDHRELEQLR KEVQTLRDRL PEMLRDKASL SQTDGPPAGS PGQDSDLRQE LDRLHRELAE GRAGLQAQEQ ELCRAQGQQE ELLQRLQEAQ EREAATASQT RALSSQLEEA RAAQRELEAQ VSSLSRQVTQ LQGQWEQRLE ESSQAKTIHT ASETNGMGPP EGGPQEAQLR KEVAALREQL EQAHSHRPSG KEEALCQLQE ENRRLSREQE RLEAELAQEQ ESKQRLEGER RETESNWEAQ LADILSWVND EKVSRGYLQA LATKMAEELE SLRNVGTQTL

PARPLDHQWK ARRLQKMEAS ARLELQSALE AEIRAKQGLQ ERLTQVQEAQ LQAERRLQEA EKQSQALQQE LAMLREELRA RGPVDTKPSN SLIPFLSFRS SEKDSAKDPG ISGEATRHGG EPDLRPEGRR SLRMGAVFPR APTANTASTE GLPAKPGSHT LRPRSFPSPT KCLRCTSLML GLGRQGLGCD ACGYFCHTTC APQAPPCPVP PDLLRTALGV HPETGTGTAY EGFLSVPRPS GVRRGWQRVF AALSDSRLLL FDAPDLRLSP PSGALLQVLD LRDPQFSATP VLASDVIHAQ SRDLPRIFRV TTSQLAVPPT TCTVLLLAES EGERERWLQV LGELQRLLLD ARPRPRPVYT LKEAYDNGLP LLPHTLCAAI LDQDRLALGT EEGLFVIHLR SNDIFQVGEC RRVQQLTLSP SAGLLVVLCG RGPSVRLFAL AELENIEVAG AKIPESRGCQ VLAAGSILQA RTPVLCVAVK RQVLCYQLGP GPGPWQRRIR ELQAPATVQS LGLLGDRLCV GAAGGFALYP LLNEAAPLAL GAGLVPEELP PSRGGLGEAL GAVELSLSEF LLLFTTAGIY VDGAGRKSRG HELLWPAAPM GWGYAAPYLT VFSENSIDVF DVRRAEWVQT VPLKKVRPLN PEGSLFLYGT EKVRLTYLRN QLAEKDEFDI PDLTDNSRRQ LFRTKSKRRF FFRVSEEQQK QQRREMLKDP FVRSKLISPP TNFNHLVHVG PANGRPGARD KSPAPEEKGR VARGSGPQRP HSFSEALRRP ASMGSEGLGG DADPMKRKPW TSLSSESVSC POGSLSPATS LMOVSERPRS LPLSPELESS P

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)

Grade:

Target:

Crystallography grade

MRCKG (CDC42BPG)

Target Details

Alternative Name:	CDC42BPG (CDC42BPG Products)
Background:	Serine/threonine-protein kinase MRCK gamma (EC 2.7.11.1) (CDC42-binding protein kinase
	gamma) (DMPK-like gamma) (Myotonic dystrophy kinase-related CDC42-binding kinase
	gamma) (MRCK gamma) (MRCKG) (Myotonic dystrophy protein kinase-like gamma) (Myotonic
	dystrophy protein kinase-like alpha),FUNCTION: May act as a downstream effector of CDC42 in
	cytoskeletal reorganization. Contributes to the actomyosin contractility required for cell
	invasion, through the regulation of MYPT1 and thus MLC2 phosphorylation (By similarity).
	{ECO:0000250 UniProtKB:Q5VT25, ECO:0000269 PubMed:15194684}.

Target Details

Molecular Weight:	172.5 kDa
UniProt:	Q6DT37

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

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)



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