Datasheet for ABIN3093469

PHKA1 Protein (AA 1-1223) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	PHKA1
Protein Characteristics:	AA 1-1223
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHKA1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MRSRSNSGVR LDGYARLVQQ TILCHQNPVT GLLPASYDQK DAWVRDNVYS ILAVWGLGLA YRKNADRDED KAKAYELEQS VVKLMRGLLH CMIRQVDKVE SFKYSQSTKD SLHAKYNTKT CATVVGDDQW GHLQLDATSV YLLFLAQMTA SGLHIIHSLD EVNFIQNLVF YIEAAYKTAD FGIWERGDKT NQGISELNAS SVGMAKAALE ALDELDLFGV KGGPQSVIHV LADEVQHCQS ILNSLLPRAS TSKEVDASLL SVVSFPAFAV EDSQLVELTK QEIITKLQGR YGCCRFLRDG YKTPKEDPNR LYYEPAELKL FENIECEWPL FWTYFILDGV FSGNAEQVQE YKEALEAVLI KGKNGVPLLP ELYSVPPDRV DEEYQNPHTV DRVPMGKLPH MWGQSLYILG SLMAEGFLAP GEIDPLNRRF STVPKPDVVV QVSILAETEE IKTILKDKGI YVETIAEVYP IRVQPARILS HIYSSLGCNN RMKLSGRPYR HMGVLGTSKL YDIRKTIFTF TPQFIDQQQF YLALDNKMIV EMLRTDLSYL CSRWRMTGQP TITFPISHSM LDEDGTSLNS SILAALRKMQ DGYFGGARVQ TGKLSEFLTT SCCTHLSFMD PGPEGKLYSE DYDDNYDYLE SGNWMNDYDS TSHARCGDEV ARYLDHLLAH

TAPHPKLAPT SQKGGLDRFQ AAVQTTCDLM SLVTKAKELH VQNVHMYLPT KLFQASRPSF NLLDSPHPRQ ENQVPSVRVE IHLPRDQSGE VDFKALVLQL KETSSLQEQA DILYMLYTMK GPDWNTELYN ERSATVRELL TELYGKVGEI RHWGLIRYIS GILRKKVEAL DEACTDLLSH QKHLTVGLPP EPREKTISAP LPYEALTQLI DEASEGDMSI SILTQEIMVY LAMYMRTQPG LFAEMFRLRI GLIIQVMATE LAHSLRCSAE EATEGLMNLS PSAMKNLLHH ILSGKEFGVE RSVRPTDSNV SPAISIHEIG AVGATKTERT GIMQLKSEIK QVEFRRLSIS AESQSPGTSM TPSSGSFPSA YDQQSSKDSR QGQWQRRRRL DGALNRVPVG FYQKVWKVLQ KCHGLSVEGF VLPSSTTREM TPGEIKFSVH VESVLNRVPQ PEYRQLLVEA ILVLTMLADI EIHSIGSIIA VEKIVHIAND LFLQEQKTLG ADDTMLAKDP ASGICTLLYD SAPSGRFGTM TYLSKAAATY VQEFLPHSIC AMQ

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 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!

Product Details

	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:	PHKA1
Alternative Name:	PHKA1 (PHKA1 Products)
Background:	Phosphorylase b kinase regulatory subunit alpha, skeletal muscle isoform (Phosphorylase kinase alpha M subunit),FUNCTION: Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The alpha chain may bind calmodulin.
Molecular Weight:	137.3 kDa
UniProt:	P46020
Pathways:	Cellular Glucan Metabolic Process

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

Application Details

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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

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