



Datasheet for ABIN3093496

PHKB Protein (AA 2-1093) (His tag)



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Overview

Quantity:

1 mg

Target:

PHKB

Protein Characteristics:

AA 2-1093

Origin:

Human

Source:

Insect Cells

Protein Type:

Recombinant

Purification tag / Conjugate:

This PHKB protein is labelled with His tag.

Application:

ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:

AGAAGLTAEV SWKVLERRAR TKRSGSVYEP LKSINLPRPD NETLWDKLDH YYRIVKSTLL
LYQSPTTGLF PTKTCGGDQK AKIQDSLCA AGAWALALAY RRIDDDKGRT HELEHSAIKC
MRGILYCYMR QADKVQQFKQ DPRPTTCLHS VFNVHTGDEL LSYEEYGHQ INAVSLYLLY
LVEMISSGLQ IIYNTDEVSF IQNLVFCVER VYRVPDFGVW ERGSKYNNGS TELHSSVG
AKAAALEAING FNLFGNQGCS WSVIFVLDLA HNRNRQTLCS LLPRESRSRN TDAALLPCIS
YPAFALDDEV LFSQTLDKVV RKLKGKYGFK RFLRDGYRTS LEDPNRCYYK PAEIKLFIDI
ECEFPIFFLY MMIDGVFRGN PKQVQEYQDL LTPVLHHTTE GYPVVPKYYY VPADFVEYEK
NNPGSQKRFP SNCGRDGKLF LWGQALYIIA KLLADELISP KDIDPVQRVY PLKDQRNVSM
RFSNQGPLEN DLVHVHALIA ESQRLQVFLN TYGIQTQTPQ QVEPIQIWPQ QELVKAYLQL
GINEKLGLSG RPDRPIGCLG TSKIYRILGK TVVCYPIIFD LSDFYMSQDV FLLIDDIKNA
LQFIKQYWKM HGRPLFLVLI REDNIRGSRF NPILDMLAAL KKGIIGGVKV HVDRQLTLIS
GAVVEQLDFL RISDTEELPE FKSSEELEPP KHSKVKRQSS TPSAPELGQQ PDVNISEWKD

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KPTHEILQKL NDCSCLASQA ILLGILLKRE GPNFITKEGT VSDHIERVYR RAGSQKLWLA
VRYGAAFTQK FSSSIAPHIT TFLVHGKQVT LGAFGHEEEV ISNPLSPRVI QNIIYYKCNT
HDEREAVIQQ ELVIHIGWII SNNPELFSGM LKIRIGWIH AMEYELQIRG GDKPALDLYQ
LSPSEVKQLL LDILQPQQNG RCWLNRQRID GSLNRPTGF YDRVWQILER TPNGIIVAGK
HLPQQPTLSD MTMYEMNFSL LVEDTLGNID QPQYRQIVVE LLMVVSIVLE RNPELEFQDK
VDLDRLVKEA FNEFKDQSR LKEIEKQDDM TSFYNTPPLG KRGTCSYLTAVMNLLGE
VKPNNDPCL IS

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.
- Human PHKB 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:

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

Product Details

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: PHKB

Alternative Name: PHKB ([PHKB Products](#))

Background: Phosphorylase b kinase catalyzes the phosphorylation of serine in certain substrates, including troponin I. The beta chain acts as a regulatory unit and modulates the activity of the holoenzyme in response to phosphorylation.

Molecular Weight: 125.7 kDa Including tag.

UniProt: [Q93100](#)

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: 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 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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)