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Datasheet for ABIN3094633  
**PI4KB Protein (AA 2-816) (His tag)**

### Overview

Quantity:	1 mg
Target:	PI4KB
Protein Characteristics:	AA 2-816
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PI4KB protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence: GDTVVEPAPL KPTSEPTSGP PGNNGGSLLS VITEGVGELS VIDPEVAQKA CQEVLEKVKL  
LHGGVAVSSR GTPLELVNGD GVDSEIRCLD DPPAQIREEE DEMGAAVASG TAKGARRRRQ  
NNSAKQSWLL RLFESKLFDI SMAISYLYNS KEPGVQAYIG NRLFCFRNED VDFYLPQLLN  
MYIHMEDVVG DAIKPYIVHR CRQSINFLSQ CALLLGAYSS DMHISTQRHS RGTKLRKLIL  
SDELKPAHRK RELPSLSPAP DTGLSPSKRT HQRSKSDATA SISLSSNLKR TASNPKVENE  
DEELSSSTES IDNSFSSPVR LAPEREFIKS LMAIGKRLAT LPTKEQKTQR LISELSSLNH  
KLPARVWLPT AGFDHHVVRV PHTQAVVLNS KDKAPYLIYV EVLECENFDT TSVPARIPEN  
RIRSTRSVEN LPECGITHEQ RAGSFSTVPN YDNDDEAWSV DDIGELQVEL PEVHTNSCDN  
ISQFSVDSIT SQESKEPVFI AAGDIRRRLS EQLAHTPTAF KRDPEDPSAV ALKEPWQEKV  
RRIREGSPYG HLPNWRLLSV IVKCGDDLRLQ ELLAFQVLKQ LQSIWEQERV PLWIKPYKIL  
VISADSGMIE PVVNAVSIHQ VKKQSQLSLL DYFLQEHSY TTEAFLSAQR NRVQSCAGYC  
LVCYLLQVKD RHNGNILLDA EGHIIHIDFG FILSSSPRNL GFETSAFKLT TEFVDVMGGL

DGDMFNYYKM LMLQGLIAAR KHMDKVVQIV EIMQQGSQLP CFHGSSTIRN LKERFHMSMT  
EEQLQLLVEQ MVDGSMRSIT TKLYDGFQYL TNGIM

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human PI4KB 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.

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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 through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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Endotoxin Level:

Protein is endotoxin free.

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## Product Details

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Grade: Crystallography grade

## Target Details

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Target: PI4KB

Alternative Name: PI4KB ([PI4KB Products](#))

Background: Phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate (PIP). May regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation. Involved in Golgi-to-plasma membrane trafficking (By similarity). {ECO:0000250, ECO:0000269|PubMed:10559940, ECO:0000269|PubMed:12749687, ECO:0000269|PubMed:9405935}.

Molecular Weight: 92.2 kDa Including tag.

UniProt: [Q9UBF8](#)

Pathways: [Inositol Metabolic Process](#)

## Application Details

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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

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

## Handling

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Expiry Date: Unlimited (if stored properly)