

Datasheet for ABIN7564448  
**PKN2 Protein (AA 1-983) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PKN2
Protein Characteristics:	AA 1-983
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKN2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Pkn2 Protein expressed in mammalien cells.
Sequence:	MASNPDRGEI LLELQGDSR TLPFSENVSA VQKLDSDTM VQKLDIDK RIKREIRKEL KIKEGAENLR KVTDDKKNLA YVDNILKSN KKLEELHHKL QELNAHIVVS DPEDSTDCPR TPDTPNSDSR SSTSNNRLMA LQKQLDIELK VKQGAENMIQ MYSNGSSKDR KLHGTAQQLL QDSKTKIEVI RMQILQAVQT NELAFDNAKP VISPLELRME ELRHHFKIEF AVAEGAKNVM KLLGSGKVTD RKALSEAQAR FNESSQKLDL LKYSLEQRLN ELPRNHPKSS VVIEELSLVA SPTLSPRQSM LSTQNQYSTL SKPAALTGTL EVRLMGCQDI LENVGRSKA TSVALPGWSP SDNRSSFMSR TSKSKSGSSR NLLKTDDLSN DVCAVLKLDN TVVGQTSWKP ISNQSWDQKF TLELDRSREL EISVYWRDWR SLCAVKFLRL EDFLDNQRHG MCLYLEPQGT LFAEVTFNFP VIERRPKLQR QKKIFSKQQG KTLRAPQMN INIATWGRLV RRAIPTVNHS GTFSPQTPVP ATVPVVDARI PDLAPPASDS TVTKLDFDLE PEPPPAPPRA SSLGETDESS ELRVLDIPGQ GSETVFNIEI DRNNLRPKSK SEYELSIPDS GRSCWGVGEL DDKRAQRFQ FSLQDFRCCA

## Product Details

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VLGRGHFGKV LLAEYKHTNE MFAIKALKKG DIVARDEVDS LMCEKRIFET VNSVRHPFLV  
NLFACFQTK E HVCFVMEYAA GGDLMMHHT DVFSEPRVAVF YAACVVLGLQ YLHEHKIVYR  
DLKLDNLLLD TEGFVKIADF GLCKEGMGYG DRTSTFCGTP EFLAPEVLTE TSYTRAVDWW  
GLGVLIYEML VGESPPFGDD EEEVFDIVN DEVRYPRFLS TEAISMRRL LRRNPERRLG  
AGEKDAEDVK KHPFFRLTDW SALMDKKVKP PFVPTIRGRE DVSNFDEFT SEAPILTPPR  
EPRILLEEQ EMFHDFDYVA DWC **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

PKN2

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### Alternative Name:

Pkn2 ([PKN2 Products](#))

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### Background:

Serine/threonine-protein kinase N2 (EC 2.7.11.13) (PKN gamma) (Protein kinase C-like 2) (Protein-kinase C-related kinase 2),FUNCTION: PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. Plays a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion, tumor cell invasion and transcription activation signaling processes.

## Target Details

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Phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin. Phosphorylates HDAC5, therefore lead to impair HDAC5 import. Direct RhoA target required for the regulation of the maturation of primordial junctions into apical junction formation in bronchial epithelial cells. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Stimulates FYN kinase activity that is required for establishment of skin cell-cell adhesion during keratinocytes differentiation. Regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion. Inhibits Akt pro-survival-induced kinase activity. Mediates Rho protein-induced transcriptional activation via the c-fos serum response factor (SRF). Involved in the negative regulation of ciliogenesis (By similarity). {ECO:0000250|UniProtKB:Q16513, ECO:0000269|PubMed:17403031, ECO:0000269|PubMed:20974804, ECO:0000269|PubMed:8910519}.

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Molecular Weight: 111.6 kDa

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UniProt: [Q8BWW9](#)

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Pathways: [Cell-Cell Junction Organization](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months