

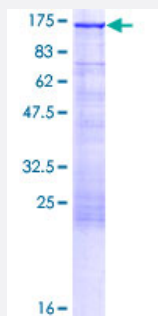
Full-Length

PKN1 (Human) Recombinant Protein (P01)

Catalog # H00005585-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PKN1 full-length ORF (AAH40061.1, 1 a.a. - 942 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MASDAVQSEPRWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATT
DLGRSLGPVELLLRGSSRRLDLLHQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRV
AGLEKQLAIELKVKGGAENMIQTYSNGSTKDRKLLLTAQQMLQDSKTKIDIIIRMQLRRALQAGQLEN
QAAPDDTQGSPDLGAVELRIEELRHHFRVEHAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTE
SNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAFSTRLAGPFPATHYSTLCKPAPLTG
TLEVRVVGCRDLPETIPWNPTPSMGGPGTSDSRPPFLSRPARGLYSRSGSLSGRSSLKAEAEENT
SEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRGLCALFKLKLED
FLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQRRQMNDVATWV
RLLRRLIPNATGTGTFSFGASPGSEARTTGDISVEKLNLTGSDSSPQKSSRDPPSSPSSLSSPIQ
ESTAPELPSETQETPGPALCSPLRKSPLTLEDKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKK
GDIVARDEVESLMCEKRILAAVTSAGHPFLVNLFQCFQTPHEVCFVMEYSAGGDLMLHIHSDVFS
EPRAIFYSACVVLGLQLFHEHKIVYRDLKLDNLLLDTEGYVKIADFGLCKEGMGYGDRTSTFCGTP
EFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPFPGDDEEEVFDSVNDVRYPRFLSAEIG
IMRLLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARLPPPFVPTLSGRTDISNFDEEFT
GEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

130.3

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PKN1

Entrez GeneID	5585
GeneBank Accession#	BC040061.1
Protein Accession#	AAH40061.1
Gene Name	PKN1
Gene Alias	DBK, MGC46204, PAK1, PKN, PKN-ALPHA, PRK1, PRKCL1
Gene Description	protein kinase N1
Omim ID	601032
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene belongs to the protein kinase C superfamily. This kinase is activated by Rho family of small G proteins and may mediate the Rho-dependent signaling pathway. This kinase can be activated by phospholipids and by limited proteolysis. The 3-phosphoinositide dependent protein kinase-1 (PDPK1/PDK1) is reported to phosphorylate this kinase, which may mediate insulin signals to the actin cytoskeleton. The proteolytic activation of this kinase by caspase-3 or related proteases during apoptosis suggests its role in signal transduction related to apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

Other Designations

protein kinase C-like 1|protein kinase C-like PKN|protein kinase C-related kinase 1|serine-threonine kinase N|serine/threonine protein kinase N

Disease

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