

Recombinant Human PKN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PKN1-1492H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PKN1 MS Standard C13 and N15-labeled recombinant protein (NP_002732) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	103.8 kDa
AA Sequence	MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGA ENLRRATTDLGRSLGPVELLLRGSSRRDLLHQQLQELHAHVLPDPAATHDGPQS PGAGGPTCSATNLSRVAGLEKQLAIELKVKQGAENMIQTYSNGSTKDRKLLTAQQ MLQDSKTKIDIIRMLRRALQAGQLENQAAPDDTQGSPDLGAVELRIEELRHHFRVE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADH
 PKGRLLREELAAASSAAFSTRLAGPFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETI
 PWNPTPSMGGPGTPDSRPPFLSRPARGLYSRGSLSGRSSLKAEAEENTSEVSTVL
 KLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRGLCALFKLE
 DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQRR
 QMNIDVATWVRLRLRIPNATGTGTFSGPASPGSEARTTGDISVEKLNLTGTDSDSSP
 QKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGPALCSPLRKSPLTLEDFKFLAVL
 GRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGHPFLV
 NLFGCFQTPEHVCFVMEYSAGGDLMLHIHSDVFSEPRAIIFYSACVVLGLQLHEHKI
 VYRDLKLDNLLLDTEGYVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTDTSYT
 RAVDWWGLGVLLYEMLVGESPPFGDDEEEVFDSIVNDEVRYPRFLSAEAIGIMRRL
 RRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPPFVPTLSGRTDISNFDE
 EFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGCTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PKN1 protein kinase N1 [Homo sapiens (human)]

Official Symbol PKN1

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Synonyms	PKN1; protein kinase N1; PRKCL1, protein kinase C like 1; serine/threonine-protein kinase N1; DBK; MGC46204; PAK1; PKN; PRK1; protein kinase C-like 1; protein kinase PKN-alpha; protein kinase C-like PKN; serine-threonine kinase N; protease-activated kinase 1; protein kinase C-related kinase 1; protein-kinase C-related kinase 1; serine-threonine protein kinase N; serine/threonine protein kinase N; PAK-1; PRKCL1; PKN-ALPHA;
Gene ID	5585
mRNA Refseq	NM_002741
Protein Refseq	NP_002732
MIM	601032
UniProt ID	Q16512
SDS-PAGE	