

Product datasheet for TP307788M

PKN1 (NM_002741) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase N1 (PKN1), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207788 representing NM_002741 Red=Cloning site Green=Tags(s)

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDLGRSL
 GPVELLLRGSSRRDLHQQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELK
 VKQGAENMIQYSNGSTKDRKLLTAQQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSPDLGA
 VELRIEELRHFRVEHAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPA
 DHPKGRLREELAAASSAAFSTRLAGPFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGG
 PGTPDSRPPFLSRPARGLYSRGSLSGRSSLKAEAEENTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFT
 LELERARELELAVFWRDQRGLCALFKLEDFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQ
 KKIFSKQQGKAFQARQMNIDVATWVRLRLRIPNATGTGTFSFGASPGSEARTTGDISVEKLNLTGSDSD
 SSPQKSSRDPPSSPSSLSPIQESTAPELPSETQETPGPALCSPLRKSPLTLEDFKFLAVLGRGHFGKVL
 LSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGHPFLVNLFGCFQTPHEHVCVMEYSAG
 GDLMLHIHSDVFSEPRAIYFYSACVVLGLQLHEHKIVYRDCLKDNLLDTEGYVKIADFLCKEGMGYGD
 RTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPFPGDDEEEVFDSIVNDEVRYPRFLSA
 EAIGIMRRLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPPFPVPTLSGRTDISNFDEEFTG
 EAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	103.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_002732](#)

Locus ID: 5585

UniProt ID: [Q16512](#)

RefSeq Size: 3097

Cytogenetics: 19p13.12

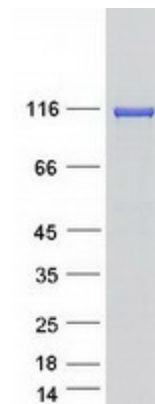
RefSeq ORF: 2826

Synonyms: DBK; PAK-1; PAK1; PKN; PKN-ALPHA; PRK1; PRKCL1

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, Jul 2008]

Protein Families: Druggable Genome, Protein Kinase

Product images:



Coomassie blue staining of purified PKN1 protein (Cat# [TP307788]). The protein was produced from HEK293T cells transfected with PKN1 cDNA clone (Cat# [RC207788]) using MegaTran 2.0 (Cat# [TT210002]).