

Product datasheet for TP307788L

PKN1 (NM_002741) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human protein kinase N1 (PKN1), transcript variant 2, 1 mg
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
 DHPKGRLLREELAAASSAAFSTRLAGPFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGG
 PGTPDSRPPFLSRPARGLYSRGSLSGRSSLKAEAEENTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFT
 LELERARELELAVFWRDQRGLCALFKLEDFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQ
 KKIFSKQQGKAFQARQMNIDVATWVRLRLRIPNATGTGTFSFGASPGSEARTTGDISVEKLNLTGTDSD
 SSPQKSSRDPPSSPSSLSPIQESTAPELPSETQETPGPALCSPLRKSPLTLEDFKFLAVLGRGHFGKVL
 LSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGHPFLVNLFGCFQTPHEHVCVMEYSAG
 GDLMLHIHSDVFSEPRAIYFYSACVVLGLQLHEHKIVYRDCLKDNLLLDTEGYVKIADFGLCKEGMGYGD
 RTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPFPGDDEEEVFDSIVNDEVRYPRFLSA
 EAIGIMRRLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPPFPVPTLSGRTDISNFDEEFTG
 EAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

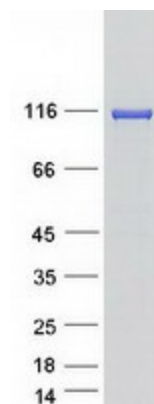
Tag: C-Myc/DDK
Predicted MW: 103.8 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity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