

Recombinant Human PKN1 protein, His & T7-tagged

Cat. No. PKN1-2709H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PKN1 aa. (Phe615~Phe874 (Accession # Q16512)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Phe615~Phe874
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.9kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	PKN1 protein kinase N1 [Homo sapiens (human)]
Official Symbol	PKN1
Synonyms	DBK; PKN; PAK1; PRK1; PAK-1; PRKCL1; PKN-ALPHA; protease-activated kinase 1; protein kinase C-like 1; protein kinase C-like PKN; protein kinase C-related kinase 1; protein kinase PKN-alpha; serine-threonine kinase N; serine/threonine protein kinase N; serine/threonine-protein kinase N1
Gene ID	5585

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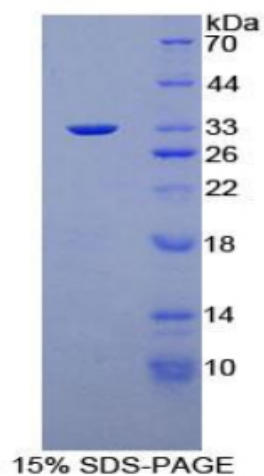
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mRNA Refseq NM_002741.3

Protein Refseq NP_002732.3

UniProt ID Q16512

SDS-PAGE



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