

Recombinant Human PKN1 cell lysate

Cat. No. PKN1-1363HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

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.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

Gene Name

PKN1 protein kinase N1 [Homo sapiens]

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
Chromosome Location	19p13.12
Pathway	G13 Signaling Pathway, organism-specific biosystem; Regulation of Androgen receptor activity, organism-specific biosystem; RhoA signaling pathway, organism-specific biosystem; Salmonella infection, organism-specific biosystem; Salmonella infection, conserved biosystem; Signaling mediated by p38-gamma and p38-delta, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;
Function	ATP binding; GTP-Rho binding; Rac GTPase binding; androgen receptor binding; chromatin binding; histone binding; histone deacetylase binding; histone kinase activity (H3-T11 specific); ligand-dependent nuclear receptor transcription coactivator activity; ligand-dependent nuclear receptor transcription coactivator activity;

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nucleotide binding; protein binding; protein kinase C activity; protein kinase C binding;
protein kinase activity; protein serine/threonine kinase activity;

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