

Recombinant Human Protein Kinase N1, GST-His

Cat. No. PKN1-704H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PKN1, Amino acids M1-C942, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in Sf9 cells. MW = 136,910 Da.
Species	Human
Source	Sf9 Cells
Protein Length	1-942 a.a.
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.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	PRK1 was confirmed as PRK1 by specific Western Blotting using anti PRK1 antibody.
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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Concentration	0.164 µg/µl (Bradford method using BSA [Sigma, cat#A-7638, Lot 79H7641] as standard protein).
Specific Activity	2 pmol/µg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
GENE INFORMATION	
Gene Name	PKN1 protein kinase N1 [Homo sapiens]
Synonyms	PKN1; protein kinase N1; DBK; PKN; PAK1; PRK1; PAK-1; PRKCL1; MGC46204; PKN-ALPHA; serine/threonine-protein kinase N1; 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; EC 2.7.11.13
Gene ID	5585
mRNA Refseq	NM_002741
Protein Refseq	NP_002732
MIM	601032
UniProt ID	Q16512
Chromosome Location	19p13.1-p12
Function	ATP binding; GTP-Rho binding; Rac GTPase binding; androgen receptor binding;

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

PDB rendering based
on 1cxz.

