

Recombinant Human PKN1 Protein (Phe615-Phe874), His tagged

Cat. No. PKN1-4985H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PKN1 (Phe615-Phe874) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Phe615-Phe874
Description	<p>PKC-related serine/threonine-protein kinase involved in various processes such as regulation of the intermediate filaments of the actin cytoskeleton, cell migration, tumor cell invasion and transcription regulation. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14. Regulates the cytoskeletal network by phosphorylating proteins such as VIM and neurofilament proteins NEFH, NEFL and NEFM, leading to inhibit their polymerization. Phosphorylates 'Ser-575', 'Ser-637' and 'Ser-669' of MAPT/Tau, lowering its ability to bind to microtubules, resulting in disruption of tubulin assembly. Acts as a key coactivator of androgen receptor (ANDR) -dependent transcription, by being recruited to ANDR target genes and specifically mediating phosphorylation of 'Thr-11' of histone H3 (H3T11ph), a specific tag for epigenetic transcriptional activation that promotes demethylation of histone H3 'Lys-9' (H3K9me) by KDM4C/JMJD2C. Phosphorylates HDAC5, HDAC7 and HDAC9, leading to impair their import in the nucleus. Phosphorylates 'Thr-38' of PPP1R14A, 'Ser-159', 'Ser-163'</p>

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and 'Ser-170' of MARCKS, and GFAP. Able to phosphorylate RPS6 in vitro.

Form Lyophilized powder/frozen liquid

Molecular Mass 30.36 kDa

Purity >90% as determined by SDS-PAGE.

Notes For research use only.

Storage Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.

Storage Buffer Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.

Reconstitution Reconstitute in sterile water for a stock solution.

Shipping They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name [PKN1 protein kinase N1 \[Homo sapiens \(human\) \]](#)

Official Symbol [PKN1](#)

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;

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PRKCL1; PKN-ALPHA;

Gene ID [5585](#)

mRNA Refseq [NM_002741](#)

Protein Refseq [NP_002732](#)

MIM [601032](#)

UniProt ID [Q16512](#)

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