

Recombinant Human PKN2 Protein (Glu67-Ile312), His tagged

Cat. No. PKN2-3419H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PKN2 (Glu67-Ile312) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu67-Ile312
Description	PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. Plays a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion, tumor cell invasion and transcription activation signaling processes. Phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin. Phosphorylates HDAC5, therefore lead to impair HDAC5 import. Direct RhoA target required for the regulation of the maturation of primordial junctions into apical junction formation in bronchial epithelial cells. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Stimulates FYN kinase activity that is required for establishment of skin cell-cell adhesion during keratinocytes differentiation. Regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion. Inhibits Akt pro-survival-induced kinase activity. Mediates Rho protein-induced transcriptional activation via the c-fos serum response factor (SRF). Involved in the negative regulation of ciliogenesis.

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Molecular Mass	28.4 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	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	PKN2 protein kinase N2 [Homo sapiens (human)]
Official Symbol	PKN2
Synonyms	PKN2; protein kinase N2; PRKCL2, protein kinase C like 2; serine/threonine-protein kinase N2; cardiolipin activated protein kinase Pak2; Pak 2; PRK2; PKN gamma; protein kinase C-like 2; protein-kinase C-related kinase 2; cardiolipin-activated protein kinase Pak2; PAK2; Pak-2; PRKCL2; PRO2042; MGC71074; MGC150606;
Gene ID	5586
mRNA Refseq	NM_006256

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Protein Refseq	NP_006247
MIM	602549
UniProt ID	Q16513

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