10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PKN1 Recombinant Rabbit mAb

Catalog # AP96422

Product Information

Application	WB
Predicted	Human, Mouse
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG/Kappa
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 1 protein kinase domain. Contains 3 REM (Hr1) repeats.
SUBUNIT	Interacts (via N-terminus) with Rho1 (via REM repeats), Rac1 (via REM 1 repeat) and Rac2.
Post-translational modifications	Phosphorylated (By similarity). Autophosphorylated; autophosphorylation is stimulated by GTP-bound Rho/Rac GTPases.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008]

Additional Information

Other Names	DBK; PAK-1; PAK1; PKN; PKN-ALPHA; PRK1; PRKCL1; F730027O18Rik; Stk3; PKN1_HUMAN; PKN1; Protease-activated kinase 1 (PAK-1); Protein kinase C-like 1; Protein kinase C-like PKN; Protein kinase PKN-alpha; Protein-kinase C-related kinase 1; Serine-threonine protein kinase N; 2.7.11.13; PKN1_MOUSE; PKN1_RAT; Q6P748_RAT; protein kinase N1
Dilution	WB=1:500-1000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Name	PKN1 Recombinant Rabbit mAb

Function	Pkc-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. May play a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion and transcription activation signaling processes (By similarity). Plays a role in regulating Rho-mediated dorsal closure during embryogenesis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.