

Anti-PKN1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

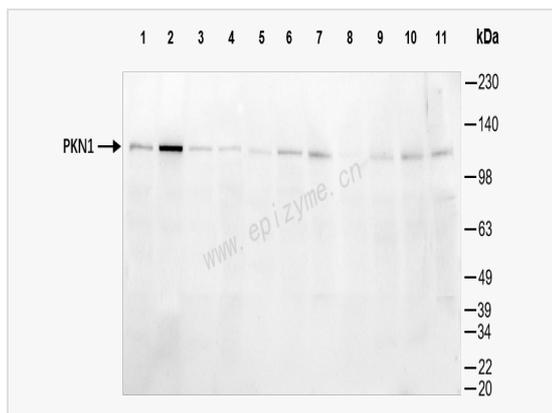
Catalog # R015000

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	65C51C39
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human PKN1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PKN1 Rabbit mAb [65C51C39] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	DBK, PAK 1, PAK-1, PAK1, PKC1, PKN ALPHA, PKN, Pkn1, PKN1_HUMAN, PRK1, PRKCL1, Protease activated kinase 1, Protease-activated kinase 1, Protein kinase C like 1, Protein kinase C like PKN, Protein kinase C related kinase 1, Protein kinase C-like 1, Protein kinase C-like PKN, Protein kinase N1, Protein kinase PKN alpha, Protein kinase PKN-alpha, Protein-kinase C-related kinase 1, Serine threonine kinase N, Serine threonine protein kinase N, Serine-threonine protein kinase N, Serine/threonine protein kinase N1, Serine/threonine-protein kinase N1.
Calculated MW	Calculated MW: 104 kDa; Observed MW: 120 kDa
Uniprot ID	Q16512
Gene ID	5585
Background	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]
Cellular Location	Cytoplasm. Nucleus. Endosome. Cell membrane. Cleavage furrow. Midbody. Associates with chromatin in a ligand-dependent manner. Localization to endosomes is mediated via its interaction with RHOB. Association to the cell membrane is dependent on Ser-374 phosphorylation. Accumulates during telophase at the cleavage furrow and finally concentrates around the midbody in cvtokinesis.



Western Blot - Anti-PKN1 Rabbit mAb [65C51C39]

All lanes: R015000 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 4: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 5: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 7: 293T (Human embryonic kidney cell) whole cell lysates

Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 9: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 10: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at

1:5,000 dilution

Predicted band size: 104 kDa

Observed band size: 120 kDa

Developed using the ECL technique (Cat. No. SQ201).