

Product Name: KD-Validated PKN1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00365**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 103.9kDa

Antigen Information

Gene Name	PKN1 PKN1; Protein Kinase N1; PRK1; PAK1; PKN; Protein Kinase C-Like 1; PRKCL1; DBK; Serine/Threonine-Protein Kinase N1; Protease-Activated Kinase 1; Protein Kinase C-Like
Alternative Names	PKN; Protein Kinase PKN-Alpha; EC 2.7.11.13; MGC46204; PAK-1; Protein Kinase C-Related Kinase 1; Serine/Threonine Protein Kinase N; Protein-Kinase C-Related Kinase 1; Serine-Threonine Protein Kinase N; Serine-Threonine Kinase N; PKN-ALPHA; EC 2.7.11
Gene ID	5585.0
SwissProt ID	Q16512
Immunogen	A synthesized peptide derived from human PKN1

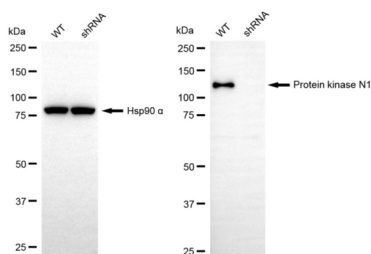
Background

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 (PDK1/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]

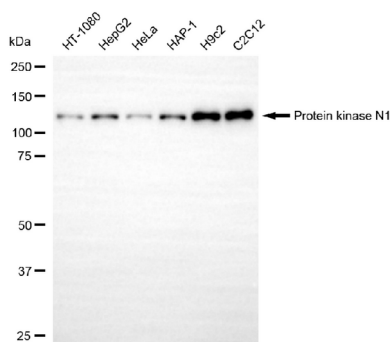
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling

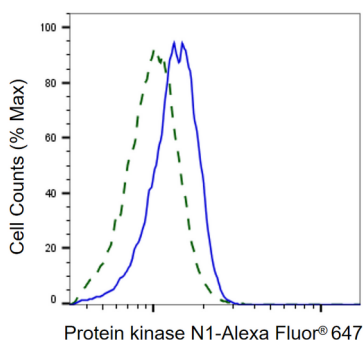
Image Data



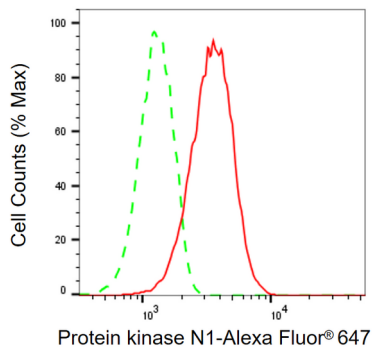
Western blotting analysis using protein kinase N1 antibody (KVA00365). Protein kinase N1A expression in wild-type (WT) and protein kinase N1 (PKN1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with protein kinase N1 antibody (KVA00365, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using protein kinase N1 antibody (KVA00365). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with protein kinase N1 antibody (KVA00365, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of Protein kinase N1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Protein kinase N1 antibody (KVA00365, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Protein kinase N1 expression in C2C12 cells using Protein kinase N1 antibody (KVA00365, 1:2,000). Green, isotype control; red, Protein kinase N1.