

## PKN1 Rabbit mAb

Catalog No: #52511

Package Size: #52511-1 50ul #52511-2 100ul

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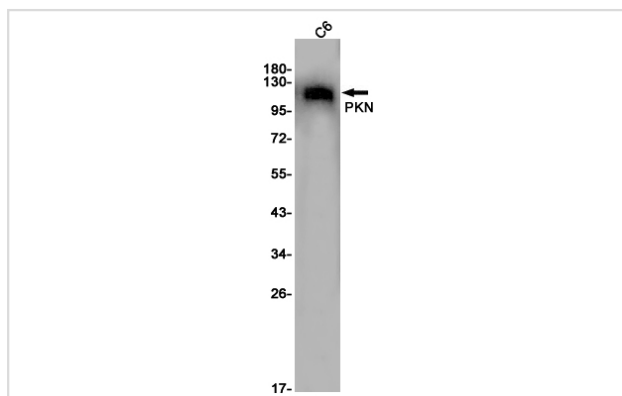
## Description

Product Name	PKN1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S09-214
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human PKN
Conjugates	Unconjugated
Modification	Unmodification
Other Names	DBK; PKN; PAK1; PRK1; PAK-1; PRKCL1; PKN-ALPHA
Accession No.	Swiss-Prot:Q16512GeneID:5585
Uniprot	Q16512
GeneID	5585
Calculated MW	Calculated MW: 104 kDa; Observed MW: 120 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Application Details

WB: 1/1000-1/5000;

## Images



Western blot detection of PKN in C6 cell lysates using PKN Rabbit mAb(1:1000 diluted).Predicted band size:104KDa.Observed band size:120KDa.

## Background

Swiss-Prot Acc.Q16512.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 and Ser-170 of MARCKS, and GFAP. Able to phosphorylate RPS6 in vitro.

Note: This product is for in vitro research use only