



## Rabbit Anti-PKN antibody

SL4320R

<b>Product Name:</b>	PKN
<b>Chinese Name:</b>	蛋白激酶C相关激酶1抗体
<b>Alias:</b>	DBK; DPKN; PAK 1; PRK 1; PROTEIN KINASE C RELATED KINASE 1; SERINE/THREONINE PROTEIN KINASE N; PAK1; PRK1; PAK-1; PRKCL1; PKN-ALPHA.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
<b>Applications:</b>	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	104kDa
<b>Cellular localization:</b>	The nucleuscytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PKN:401-500/942
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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]

**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.

**Subunit:**

Interacts (via N-terminus) with Rho1 (via REM repeats), Rac1 (via REM 1 repeat) and Rac2.

**Subcellular Location:**

Cytoplasmic.

**Post-translational modifications:**

Phosphorylated (By similarity). Autophosphorylated; autophosphorylation is stimulated by GTP-bound Rho/Rac GTPases.

**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.

**SWISS:**

Q16512

**Gene ID:**

5585

**Database links:**

[Entrez Gene: 5585](#) Human

[Entrez Gene: 320795](#) Mouse

[Entrez Gene: 29355](#) Rat

[SwissProt: Q16512](#) Human

[SwissProt: P70268](#) Mouse

[SwissProt: Q63433](#) Rat

[SwissProt: Q6P748](#) Rat

[Unigene: 466044](#) Human

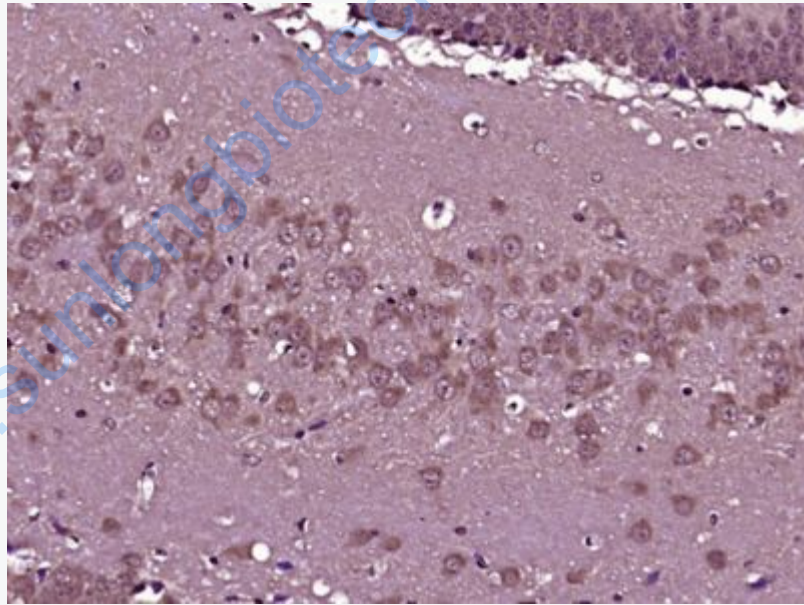
[Unigene: 213000](#) Mouse

[Unigene: 49880](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PKN) Polyclonal Antibody, Unconjugated (SL4320R) at 1:400 overnight at 4°C, followed by operating according to SP

	Kit(Rabbit) (sp-0023) instructions and DAB staining.
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