

# PKC nu Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7025B

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q94806</a>
<b>Other Accession</b>	<a href="#">Q8K1Y2</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB1290
<b>Calculated MW</b>	100471
<b>Antigen Region</b>	860-890

## Additional Information

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<b>Gene ID</b>	23683
<b>Other Names</b>	Serine/threonine-protein kinase D3, Protein kinase C nu type, Protein kinase EPK2, nPKC-nu, PRKD3, EPK2, PRKCN
<b>Target/Specificity</b>	This PKC nu antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 860-890 amino acids from the C-terminal region of human PKC nu.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	PKC nu Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PRKD3
<b>Synonyms</b>	EPK2, PRKCN

<b>Function</b>	Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress (By similarity).
<b>Cellular Location</b>	Cytoplasm. Membrane. Note=Translocation to the cell membrane is required for kinase activation
<b>Tissue Location</b>	Ubiquitous.

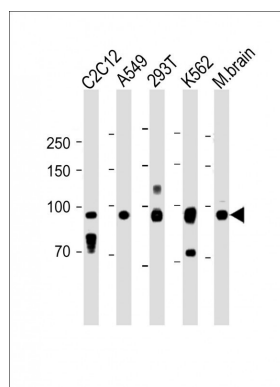
## Background

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play distinct roles in cells. PKC nu is one of the PKC family members. This kinase can be activated rapidly by the agonists of G protein-coupled receptors. It resides in both cytoplasm and nucleus, and its nuclear accumulation is found to be dramatically enhanced in response to its activation. This kinase can also be activated after B-cell antigen receptor (BCR) engagement, which requires intact phospholipase C gamma and the involvement of other PKC family members.

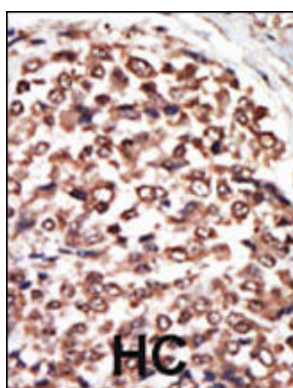
## References

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 Rey, O., et al., J. Biol. Chem. 278(26):23773-23785 (2003).  
 Matthews, S.A., et al., J. Biol. Chem. 278(11):9086-9091 (2003).  
 Bennasser, Y., et al., Virology 303(1):174-180 (2002).  
 Bennasser, Y., et al., FASEB J. 16(6):546-554 (2002).

## Images



All lanes: Anti-PKC nu Antibody (C-term) at 1:1000 dilution  
 Lane 1: C2C12 whole cell lysate Lane 2: A549 whole cell lysate Lane 3: 293T whole cell lysate Lane 4: K562 whole cell lysate Lane 5: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 95 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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