

Rabbit PKC nu Polyclonal Antibody | anti-PRKD3 antibody

PKC nu Antibody (C-term)

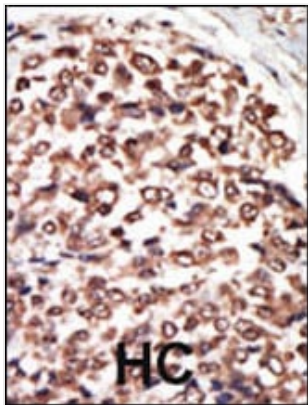
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285297	Rabbit	Human (Predicted Reactivity: Mouse)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

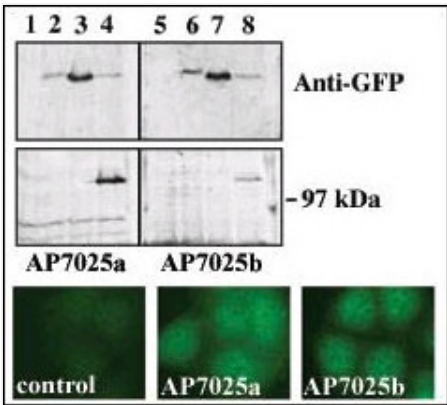
PKC nu; Polyclonal Antibody; PKC nu Antibody (C-term); Serine/threonine-protein kinase D3; Protein kinase C nu type; Protein kinase EPK2; nPKC-nu; PRKD3; EPK2; PRKCN; anti-PRKD3 antibody

PRODUCT SPECIFICATIONS

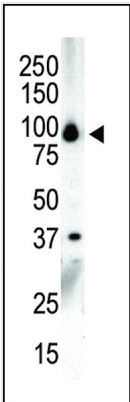
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PKC nu antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 860-890 amino acids from the C-terminal region of human PKC nu.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	860-890
Sequence Length	611
Applicable Applications for anti-PRKD3 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Function	Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress (By similarity).
Cellular Location	Cytoplasm. Membrane. Note=Translocation to the cell membrane is required for kinase activation
Tissue Location	Ubiquitous.
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemisry)
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.



WB (Western Blot)
Upper panel, western blot analysis of GFP fusion protein expression in Panc-1 cells by using an anti-GFP antibody. Lanes 1 and 5: non-transfected cells; lanes 2 and 6: GFP-PKD-transfected cells; lanes 3 and 7: GFP-PKD2-transfected cells; lanes 4 and 8: GFP-PKD3 transfected cells. Center panel, western blot analysis of GFP fusion protein expression in Panc-1 cells by using PKD3 N-term and C-term (AAA285297) antibodies. Lower panel, indirect immunofluorescence analysis of GFP-PKD3 fusion protein expression in Panc-1 cells by using and AAA285297 antibodies. Data courtesy of Dr. Osvaldo Rey, University of California Los Angeles.



WB (Western Blot)
Western blot analysis of anti-PKCnu C-term Pab in NCI-H460 cell lysate. PKCnu (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKD3 antibody	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.
Product Categories/Family for anti-PRKD3 antibody	Signal Transduction
References	Yeaman, C., et al., Nat. Cell Biol. 6(2):106-112 (2004). 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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031689
NCBI GeneID	23683
NCBI Accession #	NP_005804.1
NCBI GenBank Nucleotide #	NM_005813.4
UniProt Accession #	O94806; Q53TR7; Q8NEL8; D6W587
Molecular Weight	Calculated MW: 100471
NCBI Official Full Name	serine/threonine-protein kinase D3
NCBI Official Synonym Full Names	protein kinase D3
NCBI Official Symbol	PRKD3
NCBI Official Synonym Symbols	EPK2; PKD3; PRKCN; PKC-NU; nPKC-NU
NCBI Protein Information	serine/threonine-protein kinase D3
UniProt Protein Name	Serine/threonine-protein kinase D3
UniProt Gene Name	PRKD3
UniProt Synonym Gene Names	EPK2; PRKCN
UniProt Entry Name	KPCD3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pkc-nu-antibody-immunohistochemistry-western-blot-elisa/285297>