

PKC nu Antibody Blocking Peptide
Synthetic peptide
Catalog # BP7025a**Specification**

PKC nu Antibody Blocking Peptide - Product InformationPrimary Accession [O94806](#)**PKC nu Antibody Blocking Peptide - Additional Information****Gene ID** 23683**Other Names**

Serine/threonine-protein kinase D3, Protein kinase C nu type, Protein kinase EPK2, nPKC-nu, PRKD3, EPK2, PRKCN

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7025a](/product/products/AP7025a) was selected from the region of human PKC nu. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PKC nu Antibody Blocking Peptide - Protein Information**Name** PRKD3**Synonyms** EPK2, PRKCN**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.

PKC nu Antibody Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PKC nu Antibody Blocking Peptide - Images

PKC nu Antibody Blocking Peptide - 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.

PKC nu Antibody Blocking Peptide - 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).