

**PNCK Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7097a**

**Specification**

**PNCK Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [Q6P2M8](#)

**PNCK Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 139728

**Other Names**

Calcium/calmodulin-dependent protein kinase type 1B, CaM kinase I beta, CaM kinase IB, CaM-KI beta, CaMKI-beta, Pregnancy up-regulated non-ubiquitously-expressed CaM kinase, PNCK

**Target/Specificity**

The synthetic peptide sequence is selected from aa 227~241 of human PNCK.

**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.

**PNCK Antibody (C-term) Blocking Peptide - Protein Information**

**Name** PNCK

**Function**

Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates CREB1 and SYN1/synapsin I. Phosphorylates and activates CAMK1 (By similarity).

**Cellular Location**

Cytoplasm. Nucleus.

**PNCK Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PNCK Antibody (C-term) Blocking Peptide - Images****PNCK Antibody (C-term) Blocking Peptide - Background**

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains.

**PNCK Antibody (C-term) Blocking Peptide - References**

Medvedev, A.E., et al., J. Exp. Med. 198(4):521-531 (2003).Jiang, Z., et al., J. Biol. Chem. 278(13):10952-10956 (2003).Picard, C., et al., Science 299(5615):2076-2079 (2003).Li, S., et al., Proc. Natl. Acad. Sci. U.S.A. 99(8):5567-5572 (2002).Suzuki, N., et al., Nature 416(6882):750-756 (2002).