

**PPP3CC Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8465a****Specification**

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**PPP3CC Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [P48454](#)  
Other Accession [PPP3CC](#)

**PPP3CC Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 5533

**Other Names**

Serine/threonine-protein phosphatase 2B catalytic subunit gamma isoform, CAM-PRP catalytic subunit, Calcineurin, testis-specific catalytic subunit, Calmodulin-dependent calcineurin A subunit gamma isoform, PPP3CC, CALNA3, CNA3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8465a](/product/products/AP8465a) was selected from the N-term region of human PPP3CC. 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.

**PPP3CC Antibody (N-term) Blocking Peptide - Protein Information**

**Name** PPP3CC

**Synonyms** CALNA3, CNA3

**Function**

Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals. Dephosphorylates and activates transcription factor NFATC1. Dephosphorylates and inactivates transcription factor ELK1. Dephosphorylates DARPP32.

**Cellular Location**

Mitochondrion {ECO:0000250|UniProtKB:P48455}. Note=Localizes in the mitochondria in a

SPATA33-dependent manner {ECO:0000250|UniProtKB:P48455}

#### **Tissue Location**

Testis..

#### **PPP3CC Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **PPP3CC Antibody (N-term) Blocking Peptide - Images**

#### **PPP3CC Antibody (N-term) Blocking Peptide - Background**

Calmodulin-dependent protein phosphatase, calcineurin, is involved in a wide range of biologic activities, acting as a  $\text{Ca}(2+)$ -dependent modifier of phosphorylation status. In testis, the motility of the sperm is thought to be controlled by cAMP-dependent phosphorylation and a unique form of calcineurin appears to be associated with the flagellum. The calcineurin holoenzyme is composed of catalytic and regulatory subunits of 60 and 18 kD, respectively. At least 3 genes, calcineurin A-alpha, calcineurin A-beta, and calcineurin A-gamma (CALNA3), have been cloned for the catalytic subunit. These genes have been identified in humans, mice, and rats, and are highly conserved between species (90 to 95% amino acid identity).

#### **PPP3CC Antibody (N-term) Blocking Peptide - References**

Eastwood, S.L., et al., Biol. Psychiatry 57(7):702-710 (2005). Gerber, D.J., et al., Proc. Natl. Acad. Sci. U.S.A. 100(15):8993-8998 (2003). Bennasser, Y., et al., Virology 303(1):174-180 (2002). Esau, C., et al., J. Exp. Med. 194(10):1449-1459 (2001). Muramatsu, T., et al., Biochem. Biophys. Res. Commun. 188(1):265-271 (1992).