

### PPP3CC Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP8465b

### **Specification**

PPP3CC Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P48454
Other Accession O9BSS6

PPP3CC Antibody (C-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 <a href=/product/pr oducts/AP8465b>AP8465b</a> was selected from the C-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.

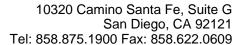
PPP3CC Antibody (C-term) Blocking Peptide -

## PPP3CC Antibody (C-term) Blocking Peptide - Background

Calmodulin-dependent protein phosphatase, calcineurin, is involved in a wide range of biologic activities, acting as a 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, 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 (C-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).





#### **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.

**Tissue Location** Testis..

# PPP3CC Antibody (C-term) Blocking Peptide - Protocols

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

• Blocking Peptides