

PPP3CC Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12168a

Specification

PPP3CC Antibody (N-term) Blocking peptide - Product Information

Primary Accession [P48454](#)

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

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 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 (CALNA1; MIM114105), calcineurin A-beta (CALNA2; MIM 114106), 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

Liu, Y.J., et al. Obesity (Silver Spring) 18(12):2339-2346(2010) He, Z.H., et al. Eur. J. Appl. Physiol. 110(4):761-767(2010) Saus, E., et al. J Psychiatr Res 44(14):971-978(2010) Kyogoku, C., et al. Psychiatry Res (2010) In press : Pelak, K., et al. J. Infect. Dis. 201(8):1141-1149(2010)