

PPP3CB Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8464a**Specification**

PPP3CB Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P16298](#)**PPP3CB Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 5532

Other Names

Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform, CAM-PRP catalytic subunit, Calmodulin-dependent calcineurin A subunit beta isoform, PPP3CB, CALNA2, CALNB, CNA2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8464a](/product/products/AP8464a) was selected from the N-term region of human PPP3CB. 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.

PPP3CB Antibody (N-term) Blocking Peptide - Protein Information

Name PPP3CB

Synonyms CALNA2, CALNB, CNA2

Function

Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals (PubMed:[19154138](http://www.uniprot.org/citations/19154138), PubMed:[25720963](http://www.uniprot.org/citations/25720963), PubMed:[32753672](http://www.uniprot.org/citations/32753672), PubMed:[26794871](http://www.uniprot.org/citations/26794871)). Dephosphorylates TFEB in response to lysosomal Ca(2+) release, resulting in TFEB nuclear translocation and stimulation of lysosomal biogenesis (PubMed:[25720963](http://www.uniprot.org/citations/25720963), PubMed:[25720963](http://www.uniprot.org/citations/25720963)).

[32753672](http://www.uniprot.org/citations/32753672)). Dephosphorylates and activates transcription factor NFATC1 (PubMed:[19154138](http://www.uniprot.org/citations/19154138)). Dephosphorylates and inactivates transcription factor ELK1 (PubMed:[19154138](http://www.uniprot.org/citations/19154138)). Dephosphorylates DARPP32 (PubMed:[19154138](http://www.uniprot.org/citations/19154138)). Negatively regulates MAP3K14/NIK signaling via inhibition of nuclear translocation of the transcription factors RELA and RELB (By similarity). May play a role in skeletal muscle fiber type specification (By similarity).

Cellular Location

Cytoplasm.

PPP3CB Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PPP3CB Antibody (N-term) Blocking Peptide - Images**PPP3CB Antibody (N-term) Blocking Peptide - Background**

PPP3CB is a calcium-dependent, calmodulin-stimulated protein phosphatase. This subunit may have a role in the calmodulin activation of calcineurin.

PPP3CB Antibody (N-term) Blocking Peptide - References

Katanosaka, Y., et al., J. Biol. Chem. 280(7):5764-5772 (2005). Bell, O., et al., Mol. Endocrinol. 19(2):516-526 (2005). Bennasser, Y., et al., Virology 303(1):174-180 (2002). Kissinger, C.R., et al., Nature 378(6557):641-644 (1995). Muramatsu, T., et al., Biochim. Biophys. Acta 1178(1):117-120 (1993).