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

Specification

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

Primary 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 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, PubMed:25720963, PubMed:32753672, PubMed:26794871). Dephosphorylates TFEB in response to lysosomal Ca(2+) release, resulting in TFEB nuclear translocation and stimulation of lysosomal biogenesis (PubMed:25720963, PubMed:<a

href="http://www.uniprot.org/citations/32753672" target="_blank">32753672). Dephosphorylates and activates transcription factor NFATC1 (PubMed:19154138). Dephosphorylates and inactivates transcription factor ELK1 (PubMed:19154138). Dephosphorylates DARPP32 (PubMed: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).