

Calcineurin A Blocking Peptide
Catalog # PBV10030b**Specification**

Calcineurin A Blocking Peptide - Product Information

Primary Accession	P16298
Gene ID	5532
Calculated MW	59024

Calcineurin A Blocking Peptide - Additional Information**Gene ID** 5532**Application & Usage**

The peptide is used for blocking the antibody activity of Calcineurin A. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Serine/threonine-protein phosphatase 2B catalytic subunit beta isoform, 3.1.3.16, CAM-PRP catalytic subunit, Calmodulin-dependent calcineurin A subunit beta isoform, PPP3CB, CALNA2, CALNB, CNA2

Target/Specificity

Calcineurin A

Formulation

50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Calcineurin A Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Calcineurin A 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 $\text{Ca}(2+)$ -mediated signals (PubMed:19154138, PubMed:25720963, PubMed:32753672, PubMed:26794871).

Dephosphorylates TFEB in response to lysosomal $\text{Ca}(2+)$ release, resulting in TFEB nuclear translocation and stimulation of lysosomal biogenesis (PubMed:25720963, PubMed: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.

Calcineurin A Blocking Peptide - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Calcineurin A Blocking Peptide - Images