10320 Camino Santa Fe, Suite G
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PPP3CB Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8464a

Specification

PPP3CB Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P16298
Other Accession	P20651, P48453
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**59024**
Antigen Region	**1-30**

PPP3CB Antibody (N-term) - 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
This PPP3CB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PPP3CB.

Dilution
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PPP3CB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP3CB Antibody (N-term) - Protein Information

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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:26794871, PubMed:32753672). Dephosphorylates TFEB in response to lysosomal 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).

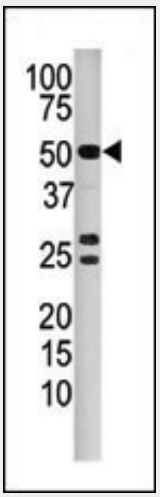
Cellular Location
Cytoplasm.

PPP3CB Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPP3CB Antibody (N-term) - Images



Western blot analysis of anti-PPP3CB Pab (Cat. #AP8464a) in mouse kidney tissue lysate. PPP3CB(arrow) was detected using the purified Pab.

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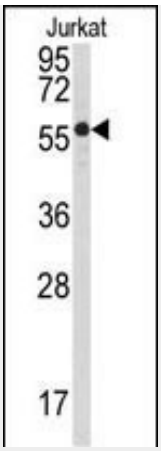
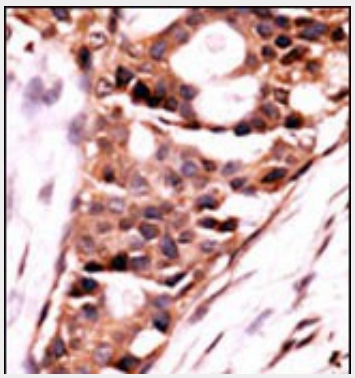


Western blot analysis of anti-PPP3CB Antibody (N-term) (Cat.#AP8464a) in Jurkat cell line lysates (35ug/lane). PPP3CB(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

PPP3CB Antibody (N-term) - 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) - 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).