10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PPP3CB Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8464a

Product Information

Application	WB, IHC-P, E
Primary Accession	P16298
Other Accession	P20651, P48453
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB6004
Calculated MW	59024
Antigen Region	1-30

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	WB~~1:1000 IHC-P~~1:100~500 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.

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: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.

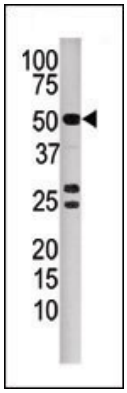
Background

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

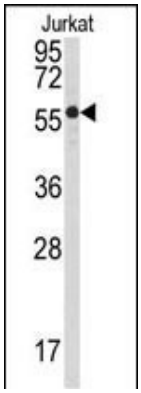
References

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Bell, O., et al., Mol. Endocrinol. 19(2):516-526 (2005).
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Kissinger, C.R., et al., Nature 378(6557):641-644 (1995).
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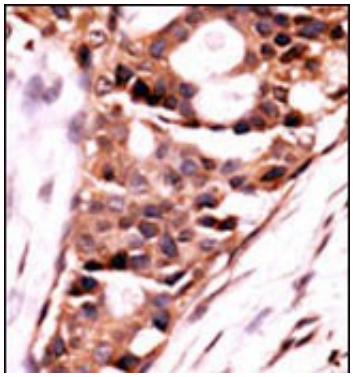
Images



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



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.