

Ppp3cb antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14137

Product Information

Application	WB
Primary Accession	P48453
Other Accession	NM_008914 , NP_032940
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59173

Additional Information

Gene ID	19056
Alias Symbol	1110063J16Rik, Calnb, CnAbeta, Cnab
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, Calnb
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ppp3cb antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Ppp3cb antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Ppp3cb
Synonyms	Calnb
Function	Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals (By similarity). Dephosphorylates TFEB in response to lysosomal Ca(2+) release, resulting in TFEB nuclear translocation and stimulation of lysosomal biogenesis (By similarity). Dephosphorylates and activates transcription factor NFATC1 (By similarity). Dephosphorylates and inactivates transcription factor

ELK1 (By similarity). Dephosphorylates DARPP32 (By similarity). Negatively regulates MAP3K14/NIK signaling via inhibition of nuclear translocation of the transcription factors RELA and RELB (PubMed:[26029823](#)). May play a role in skeletal muscle fiber type specification (PubMed:[12773574](#)).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P16298}.

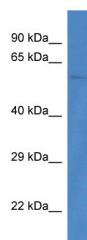
Tissue Location

Expressed in kidney, in the thick ascending limb epithelium and in the collecting duct, but not in the distal convoluted tubule (at protein level) (PubMed:15509543, PubMed:25967121). Expressed in the brain and the bicep, tricep, soleus and gastrocnemius muscles (at protein level) (PubMed:12773574). Expressed in the salivary gland (at protein level) (PubMed:21435446). Expressed in hippocampal neuron nuclei and adjacent white matter tracts in the CA1 region of the hippocampus (at protein level) (PubMed:10200317)

References

Giri P.R.,et al.Biochem. Biophys. Res. Commun. 181:252-258(1991).
Gaestel M.,et al.J. Biol. Chem. 267:21607-21611(1992).

Images



WB Suggested Anti-Ppp3cb Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Heart

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