

PPP3CB Antibody (aa1-228)
Rabbit Polyclonal Antibody
Catalog # ALS16206**Specification**

PPP3CB Antibody (aa1-228) - Product Information

Application	WB, IHC
Primary Accession	P16298
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59kDa KDa

PPP3CB Antibody (aa1-228) - Additional Information**Gene ID** 5532**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

Human PPP3CB

Reconstitution & Storage

Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions

PPP3CB Antibody (aa1-228) is for research use only and not for use in diagnostic or therapeutic procedures.

PPP3CB Antibody (aa1-228) - 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:<a

[25720963](http://www.uniprot.org/citations/25720963), PubMed:<[32753672](http://www.uniprot.org/citations/32753672)>). Dephosphorylates and activates transcription factor NFATC1 (PubMed:<[19154138](http://www.uniprot.org/citations/19154138)>). Dephosphorylates and inactivates transcription factor ELK1 (PubMed:<[19154138](http://www.uniprot.org/citations/19154138)>). Dephosphorylates DARPP32 (PubMed:<[19154138](http://www.uniprot.org/citations/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.

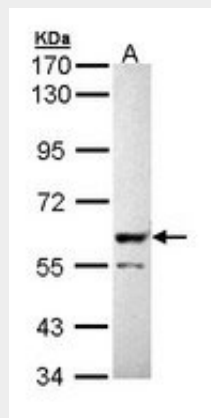
Volume

50 μ l

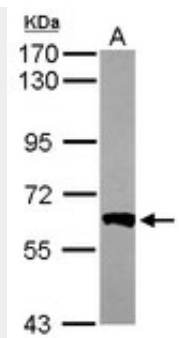
PPP3CB Antibody (aa1-228) - Protocols

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

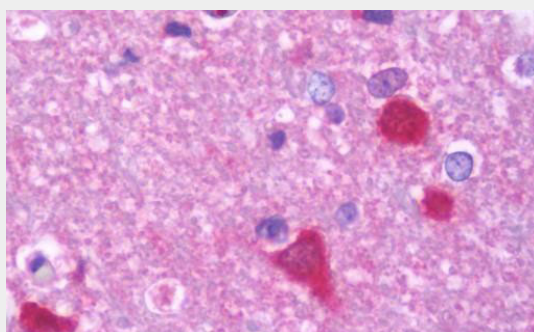
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PPP3CB Antibody (aa1-228) - Images

Sample (30 ug of whole cell lysate). A: Molt-4 . 7.5% SDS PAGE. PPP3CB antibody diluted at 1:5000.



Sample (50 ug of whole cell lysate).



Anti-PPP3CB antibody IHC staining of human brain, cortex.

PPP3CB Antibody (aa1-228) - Background

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

PPP3CB Antibody (aa1-228) - References

- Guerini D., et al. Proc. Natl. Acad. Sci. U.S.A. 86:9183-9187(1989).
- McPartlin A.E., et al. Biochim. Biophys. Acta 1088:308-310(1991).
- Deloukas P., et al. Nature 429:375-381(2004).
- Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Gauci S., et al. Anal. Chem. 81:4493-4501(2009).