

Datasheet for ABIN3021336
anti-PPP3CA antibody (AA 1-511)



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4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	PPP3CA
Binding Specificity:	AA 1-511
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP3CA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-511 of human Calcineurin A (NP_001124163.1).
Sequence:	MSEPKAIDPK LSTTDRVKA VPFPSSHRLT AKEVFDNDGK PRVDILKAHL MKEGRLEESV ALRIITEGAS ILRQEKNLLD IDAPVTVCGD IHGQFFDLMK LFEVGGSPAN TRYFLGDYV DRGYFSIECV LYLWALKILY PKTLFLLRGN HECRHLTEYF TFKQECKIKY SERVYDACMD AFDCLPLAAL MNQQFLCVHG GLSPEINTLD DIRKLDRFKE PPAYGPMCDI LWSDPLEDFG NEKTQEHFTH NTVRGCSYFY SYPAVCEFLQ HNNLLSILRA HEAQDAGYRM YRKSQTTGFP SLITIFSAPN YLDVYNNKAA VLKYENNVMN IRQFNCSPHP YWLPNFMDFV TWSLPFVGEK VTEMLVNVLN ICSDDELGSE EDGFDGATAA ARKEVIRNKI RAIGKMARVF SVLREESESV LTLKGLTPTG MLPSGVLSGG KQTLQSAIKG FSPQHKITSF EEAKGLDRIN ERMPPRRDAM PSDANLNSIN KALTSETNGT DSNNGSNSSNI Q
Isotype:	IgG

Product Details

Cross-Reactivity: Human, Mouse

Characteristics: Polyclonal Antibodies

Target Details

Target: PPP3CA

Alternative Name: PPP3CA ([PPP3CA Products](#))

Background: Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca²⁺-mediated signals. Many of the substrates contain a PxlIT motif and/or a LxVP motif. In response to increased Ca²⁺ levels, dephosphorylates and activates phosphatase SSH1 which results in cofilin dephosphorylation. In response to increased Ca²⁺ levels following mitochondrial depolarization, dephosphorylates DNM1L inducing DNM1L translocation to the mitochondrion. Dephosphorylates heat shock protein HSPB1 (By similarity. Dephosphorylates and activates transcription factor NFATC1. In response to increased Ca²⁺ levels, regulates NFAT-mediated transcription probably by dephosphorylating NFAT and promoting its nuclear translocation. Dephosphorylates and inactivates transcription factor ELK1. Dephosphorylates DARPP32. May dephosphorylate CRTC2 at 'Ser-171' resulting in CRTC2 dissociation from 14-3-3 proteins. Dephosphorylates transcription factor TFEB at 'Ser-211' following Coxsackievirus B3 infection, promoting nuclear translocation.,PPP3CA,CALN,CALNA,CALNA1,CCN1,CNA1,PPP2B,Signal Transduction,ErbB-HER Signaling Pathway,Cell Biology & Developmental Biology,Cytoskeleton,Actins,Immunology & Inflammation,B Cell Receptor Signaling Pathway,T Cell Receptor Signaling Pathway,Neuroscience,Calcium Signaling,Neurodegenerative Diseases,PPP3CA

Molecular Weight: 31 kDa/51 kDa/52 kDa/57 kDa/58 kDa

Gene ID: 5530

UniProt: [Q08209](#)

Pathways: [RTK Signaling](#), [WNT Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Negative Regulation of Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Synaptic Membrane](#), [Skeletal Muscle Fiber Development](#), [Protein targeting to Nucleus](#), [VEGF Signaling](#), [BCR Signaling](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

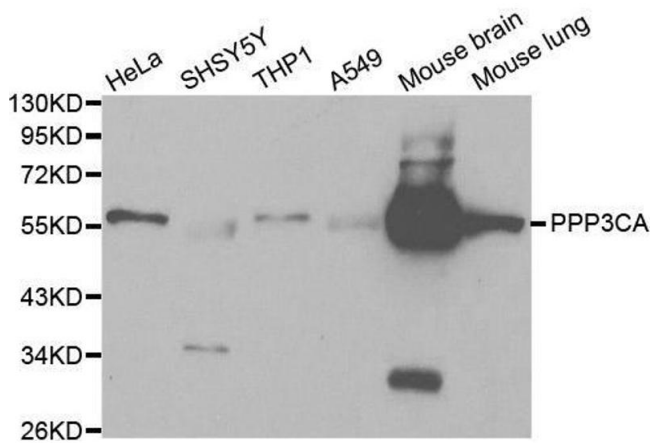
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

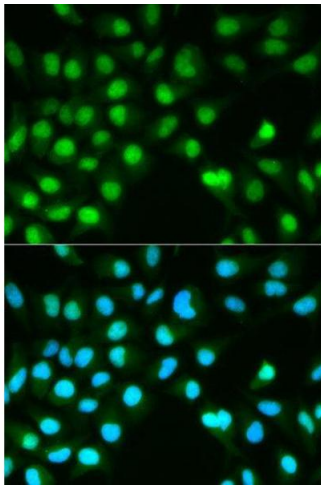
Product cited in: Chen, Wang, Long, Jia, Zhang, Deng, Li, Han, Wang: "Fasting-induced hormonal regulation of lysosomal function." in: **Cell research**, Vol. 27, Issue 6, pp. 748-763, (2018) ([PubMed](#)).

Images



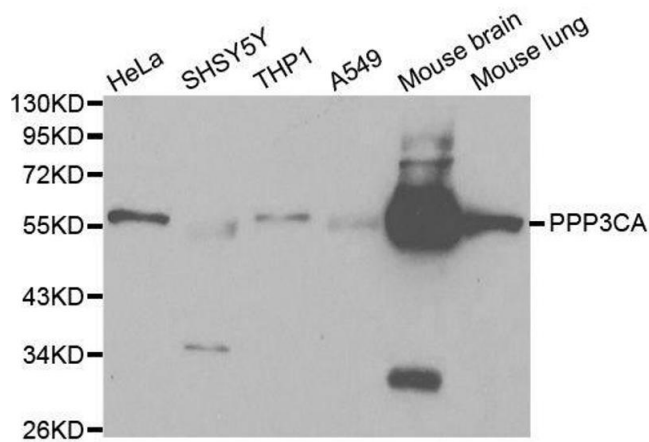
Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using PPP3CA antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of HeLa cell using PPP3CA antibody. Blue: DAPI for nuclear staining.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using PPP3CA antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3021336.