

Rabbit PPP3CA Polyclonal Antibody | anti-PPP3CA antibody

PPP3CA Antibody

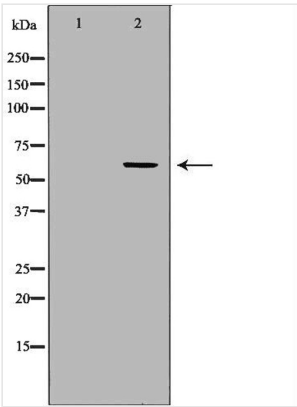
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325989	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PPP3CA; Polyclonal Antibody; PPP3CA Antibody; Alpha isoform formerly PPP2B; Calcineurin A alpha; Calcineurin A1; CalcineurinA; Calmodulin dependent calcineurin A subunit alpha isoform; Calmodulin-dependent calcineurin A subunit alpha isoform; CALN; CALNA 1; CALNA; CALNA1; CAM PRP catalytic subunit; CAM-PRP catalytic subunit; CCN 1; CCN1; CNA 1; CNA alpha; CNA; CNA1; PP2BA_HUMAN; PPP2B; Ppp3ca; Protein phosphatase 2B catalytic subunit; Protein phosphatase 3 (formerly 2B) catalytic subunit alpha isoform; Protein phosphatase 3 catalytic subunit alpha isoform PPP3CA; Protein phosphatase 3 catalytic subunit alpha isozyme; Serine/threonine protein phosphatase 2B catalytic subunit alpha isoform; Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform; anti-PPP3CA antibody

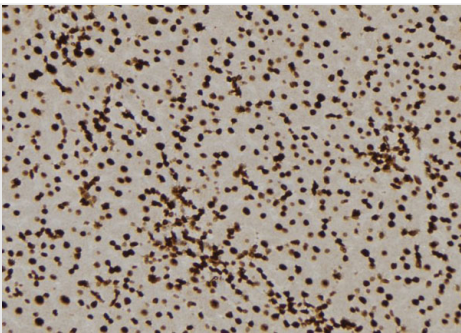
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PPP3CA antibody detects endogenous levels of total PPP3CA
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	521
Applicable Applications for anti-PPP3CA antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PPP3CA
Subcellular Location	Nucleus. Colocalizes with ACTN1 and MYOZ2 at the Z line in heart and skeletal muscle.
Predicted Cross Reactivity	Pig, Bovine, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using PPP3CA Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325989 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP3CA antibody

Description: In eukaryotes, the phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions including division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the protein phosphatases. In general, the protein phosphatase (PP) holoenzyme is a trimeric complex composed of a regulatory subunit, a variable subunit and a catalytic subunit. Four major families of protein phosphatase catalytic subunit have been identified, designated PP1, PP2A, PP2B and PP2C. An additional protein phosphatase catalytic subunit, PPX (also known as PP4), is a putative member of a novel PP family. The PP2B family comprises subfamily members PP2B-A?, PP2B-A^« and PP2B-A?. Two additional regulatory subunits been identified, designated PP2B-B1 and PP2B-B2.

Function: Calcium-dependent, calmodulin-stimulated protein phosphatase. Many of the substrates contain a PxIxIT motif. This subunit may have a role in the calmodulin activation of calcineurin. Dephosphorylates DNM1L, HSPB1 and SSH1.

Subunit Structure: Composed of two components (A and B), the A component is the catalytic subunit and the B component confers calcium sensitivity (By similarity). Interacts with CRTC2, MYOZ1, MYOZ2 and MYOZ3 (PubMed:11114196, PubMed:11842093). Interacts with DNM1L; the interaction dephosphorylates DNM1L and regulates its translocation to mitochondria (PubMed:18838687). Interacts with CMYA5; this interaction represses calcineurin activity in muscle (By similarity).Interacts with CIB1; the interaction increases upon cardiomyocytes hypertrophy (By similarity). Interacts with CHP1 and CHP2 (By similarity). Interacts (constitutively active form) with SYNPO2 (PubMed:17923693).

Similarity: Belongs to the PPP phosphatase family. PP-2B subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6715568
NCBI GeneID	5530
NCBI Accession #	NP_000935.1
NCBI GenBank Nucleotide #	NM_000944.4
UniProt Accession #	Q08209; Q8TAW9; A1A441; A8K3B7; A8W6Z7; A8W6Z8; B5BUA2
Molecular Weight	Observed: 61 kDa Predicted: 59 kDa
NCBI Official Full Name	serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform isoform 1
NCBI Official Synonym Full Names	protein phosphatase 3 catalytic subunit alpha
NCBI Official Symbol	PPP3CA
NCBI Official Synonym Symbols	CALN; CCN1; CNA1; CALNA; IECEE; PPP2B; CALNA1; IECEE1

NCBI Protein Information	serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform
UniProt Protein Name	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform
UniProt Gene Name	PPP3CA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ppp3ca-antibody-immunohistochemistry-western-blot-elisa/325989>