

Product Name: KD-Validated PPP3CA Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01695

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 58.7kDa

Antigen Information

Gene Name	PPP3CA
Alternative Names	PPP3CA; Protein Phosphatase 3 Catalytic Subunit Alpha; Calcineurin A Alpha; PPP2B; CALNA; CNA1; CAM-PRP Catalytic Subunit; EC 3.1.3.16; CNA Alpha; CALN; Protein Phosphatase 3 (Formerly 2B), Catalytic Subunit, Alpha Isoform (Calcineurin A Alpha); Serine/Threonine-Protein Phosphatase 2B Catalytic Subunit Alpha Isoform; Protein Phosphatase 3 (Formerly 2B), Catalytic Subunit, Alpha Isoform; Protein Phosphatase 2B, Catalytic Subunit, Alpha Isoform; Calmodulin-Dependent Calcineurin A Subunit Alpha Isoform; Protein Phosphatase 3, Catalytic Subunit, Alpha Isozyme; Protein Phosphatase 3 Catalytic Subunit Alpha Isozyme; ACCIID; CALNA1; IECEE1; DEE91; IECEE; CCN1; CNA
Gene ID	5530.0
SwissProt ID	Q08209

Immunogen

A synthesized peptide derived from human Calcineurin A

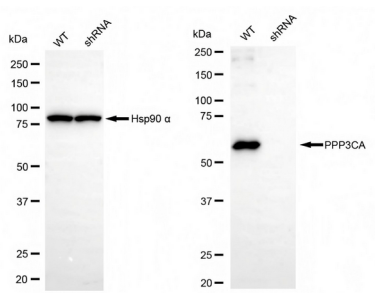
Background

Enables several functions, including ATPase binding activity; calmodulin binding activity; and calmodulin-dependent protein phosphatase activity. Involved in several processes, including calcineurin-NFAT signaling cascade; negative regulation of angiotensin-activated signaling pathway; and peptidyl-serine dephosphorylation. Located in cytoplasm; cytoplasmic side of plasma membrane; and dendritic spine. Part of calcineurin complex. Implicated in developmental and epileptic encephalopathy 91. Biomarker of cholangiocarcinoma; focal segmental glomerulosclerosis; and schizophrenia. [provided by Alliance of Genome Resources, Jul 2025]

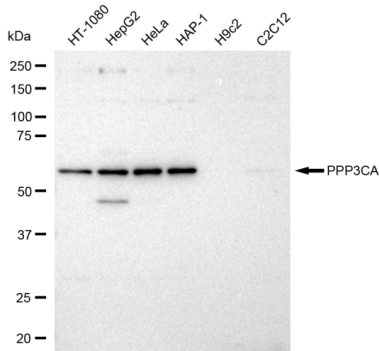
Research Area

Immunology, Signal Transduction

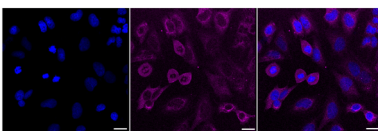
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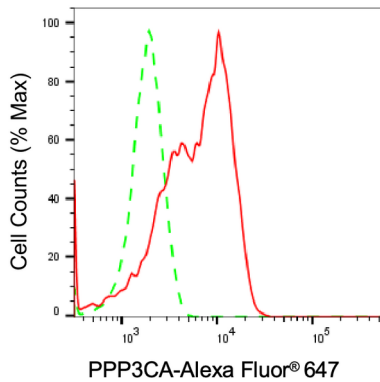
Western blotting analysis using PPP3CA antibody (KVA01695). PPP3CA expression in wild type (WT) and PPP3CA shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PPP3CA antibody (KVA01695, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PPP3CA antibody (KVA01695). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PPP3CA antibody (KVA01695, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. PPP3CA, protein phosphatase 3 catalytic subunit alpha.



Immunocytochemical staining of HeLa cells with PPP3CA antibody (KVA01695, 1:1,000). Nuclei were stained blue with DAPI; PPP3CA was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of PPP3CA expression in HeLa cells using PPP3CA antibody (KVA01695, 1:2,000). Green, isotype control; red, PPP3CA.