ARG43929
anti-PPP3CA antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PPP3CA
Tested Reactivity	Hu, Rat
Tested Application	ELISA, FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PPP3CA
Species	Human
Immunogen	Human PPP3CA recombinant protein
Conjugation	Un-conjugated
Alternate 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

Application Instructions

Application table

Application	Dilution
ELISA	0.1-0.5 µg/ml
FACS	1-3 µg/1x10^6 cells
ICC/IF	5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

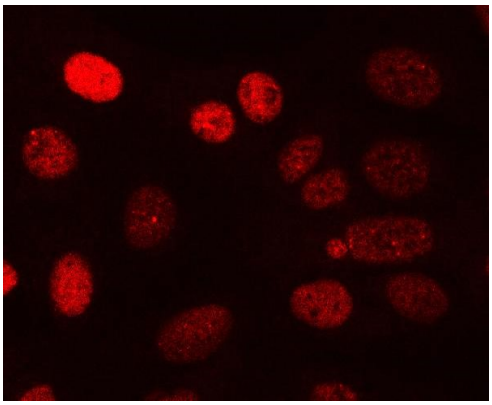
Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4 and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

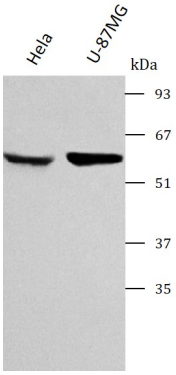
Gene Symbol	PPP3CA
Gene Full Name	Protein Phosphatase 3 Catalytic Subunit Alpha
Background	Enables several functions, including ATPase binding activity; calmodulin binding activity; and calmodulin-dependent protein phosphatase activity. Involved in several processes, including calcineurin-NFAT signaling cascade; peptidyl-serine dephosphorylation; and response to calcium ion. Located in several cellular components, including cytosol; dendritic spine; and nucleoplasm. Part of calcineurin complex. Colocalizes with cytoplasmic side of plasma membrane. Implicated in developmental and epileptic encephalopathy 91. Biomarker of focal segmental glomerulosclerosis and schizophrenia.
Function	Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca2+-mediated signals.
Calculated Mw	59 kDa
PTM	Acetylation, Nitration, Phosphoprotein
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Membrane, Synapse

Images



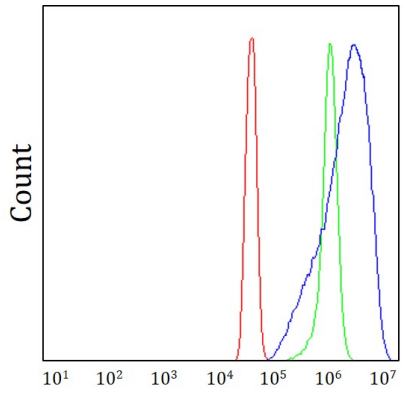
ARG43929 anti-PPP3CA antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG43929 anti-PPP3CA antibody at 5 µg/ml dilution.



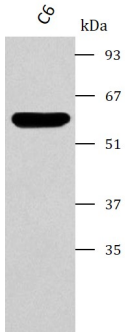
ARG43929 anti-PPP3CA antibody WB image

Western blot: HeLa and U-87MG stained with ARG43929 anti-PPP3CA antibody at 0.5 µg/mL dilution.



ARG43929 anti-PPP3CA antibody FACS image

Flow Cytometry: SiHa cells stained with ARG43929 anti-PPP3CA antibody (blue) at 1 µg/1x10^6 cells dilution.



ARG43929 anti-PPP3CA antibody WB image

Western blot: C6 stained with ARG43929 anti-PPP3CA antibody at 0.5 µg/mL dilution.