

Datasheet for ABIN2789191
anti-PPP1CA antibody (C-Term)



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1 Image

Overview

Quantity:	100 µL
Target:	PPP1CA
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP1CA antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C-terminal region of Mouse Ppp1ca
Sequence:	RQLVTLFSAP NYCGEFDNAG AMMSVDETLN CSFQILKPAD KNKGKYGQFS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against Ppp1ca. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	PPP1CA
Alternative Name:	Ppp1ca (PPP1CA Products)

Target Details

Background:	Ppp1ca is a protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca²⁺/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Regulates NEK2 function in terms of kinase activity and centrosome number and splitting, both in the presence and absence of radiation-induced DNA damage. Regulator of neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. Alias Symbols: Ppp1c, dism2 Protein Interaction Partner: Eed, Plcb1, Wbp11, SH3KBP1, Ccnb1, Atr, Eif2a, Cdc34, Ppp2r4, Lbr, Tsc1, Skp1a, PcnA, Nek2, Mapt, Max, Id2, Hspa1b, Ptk2, Cdkn2a, Ccne1, Ccnd3, Ccna1, Bcl2, Atm, Apaf1, Pou5f1, Apc, SNCA, TGFBR1, Stau1, Ppp1r9b, Ppp1r9a, Protein Size: 330
Molecular Weight:	37 kDa
Gene ID:	19045
NCBI Accession:	NM_031868 , NP_114074
UniProt:	P62137
Pathways:	M Phase , Cellular Glucan Metabolic Process , Regulation of Carbohydrate Metabolic Process , Lipid Metabolism

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

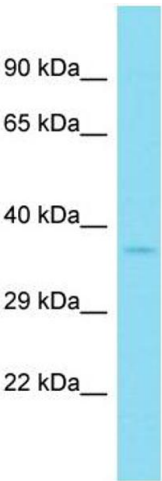
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

	sucrose.
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 repeat freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1.