

Datasheet for ABIN6264379

anti-PPP1CA antibody (C-Term)

2 Images



Go to Product page

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Quantity:	100 μL	
Target:	PPP1CA	
Binding Specificity:	C-Term	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PPP1CA antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)	
Product Details		
Immunogen:	A synthesized peptide derived from human PPP1CA, corresponding to a region within C-terminal amino acids.	
Isotype:	IgG	
Specificity:	PPP1CA Antibody detects endogenous levels of total PPP1CA.	
Predicted Reactivity:	Bovine,Horse,Sheep,Rabbit,Dog	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).	
Target Details		
Target:	PPP1CA	

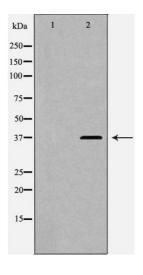
Target Details

Alternative Name:	PPP1CA (PPP1CA Products)
Background:	Description: 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. In balance with CSNK1D and CSNK1E, determines the circadian
	period length, through the regulation of the speed and rhythmicity of PER1 and PER2
	phosphorylation. May dephosphorylate CSNK1D and CSNK1E. Dephosphorylates the 'Ser-418'
	residue of FOXP3 in regulatory T-cells (Treg) from patients with rheumatoid arthritis, thereby
	inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208).
	Dephosphorylates CENPA (PubMed:25556658). Dephosphorylates the 'Ser-139' residue of
	ATG16L1 causing dissociation of ATG12-ATG5-ATG16L1 complex, thereby inhibiting autophag
	(PubMed:26083323).
	Gene: PPP1CA
Molecular Weight:	38kDa
Gene ID:	5499
UniProt:	P62136
Pathways:	M Phase, Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process,
	Lipid Metabolism
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Handling

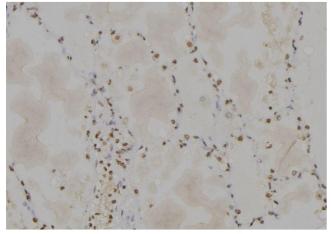
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$ glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis of Hela whole cell lysates, using PPP1CA Antibody. The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6277166 at 1/100 staining Human lung 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_iaC. An HRP conjugated goat anti-rabbit antibody was used as the secondary