

Datasheet for ABIN2787782
anti-PPP1CA antibody (N-Term)



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1 Image

Overview

Quantity:	100 µL
Target:	PPP1CA
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig
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 N terminal region of human PPP1CA
Sequence:	MSDSEKLNLD SIIGRLLEGS RVLTPHCAV QGSRPGKNVQ LTENEIRGLC
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against PPP1CA. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PPP1CA
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Target Details

Alternative Name:	PPP1CA (PPP1CA Products)
Background:	PPP1CA is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies in both human and mice suggest that PP1 is an important regulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learning and memory. The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies in both human and mice suggest that PP1 is an important regulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learning and memory. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene. Alias Symbols: MGC15877, MGC1674, PP-1A, PPP1A, PP1alpha Protein Interaction Partner: HUWE1, PPP1R2P3, CSRNP2, CSRNP1, UBC, SUMO2, SUMO3, BRCA1, Kctd20, WWOX, PKM, SCPEP1, TMOD3, MAT2B, STK24, YWHAH, XPO1, TBCB, CAPNS1, ALDH7A1, ASNS, YAP1, LMTK2, RB1, POLR2A, GSK3B, MST1R, IKBKB, CHUK, CTDP1, TNFRSF1A, tat, PPP1R15A, PPP1R13B, PLCL2, CD2B Protein Size: 341
Molecular Weight:	38 kDa
Gene ID:	5499
NCBI Accession:	NM_001008709 , NP_001008709
UniProt:	Q07161
Pathways:	M Phase , Cellular Glucan Metabolic Process , Regulation of Carbohydrate Metabolic Process , Lipid Metabolism

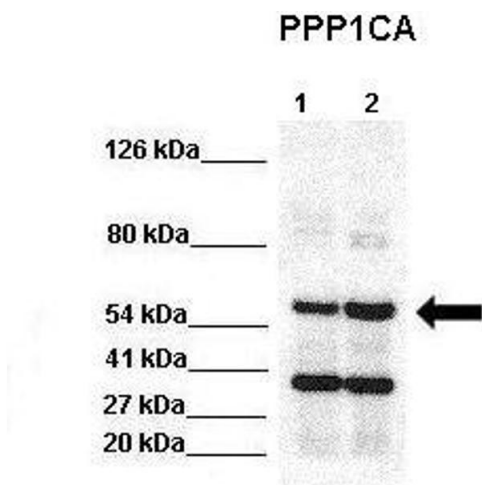
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 341 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % 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 repeated 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. WB Suggested Anti-PPP1CA Antibody

Positive Control: Lane 1:441 µg HEK293 lysate Lane 2: 041 µg H1299 lysate

Primary Antibody Dilution: 1:0000

Secondary Antibody: Goat anti-rabbit-HRP Secondry

Antibody Dilution: 1:0000

Submitted by: Jose Luis Rosa, Universitat de Barcelona