

Datasheet for ABIN969360
anti-PPP1CA antibody



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Overview

Quantity:	100 µL
Target:	PPP1CA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PPP1CA antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	PPP1CA Antibody
Immunogen:	Purified recombinant fragment of human PPP1CA expressed in E. Coli.
Clone:	5E9
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	PPP1CA
Alternative Name:	PPP1CA (PPP1CA Products)
Background:	Description: 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

Target Details

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.

Aliases: PP-1A, PPP1A, PP1alpha

Molecular Weight:	38kDa
Gene ID:	5499
HGNC:	5499
UniProt:	P62136
Pathways:	M Phase , Cellular Glucan Metabolic Process , Regulation of Carbohydrate Metabolic Process , Lipid Metabolism

Application Details

Application Notes:	ELISA: 1/10000
Restrictions:	For Research Use only

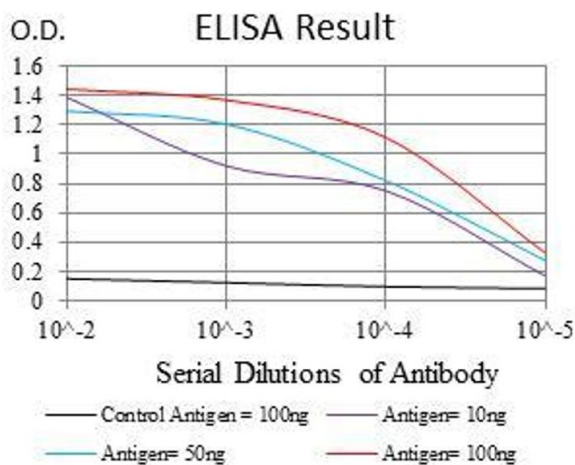
Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
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:	4 °C, -20 °C
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Publications

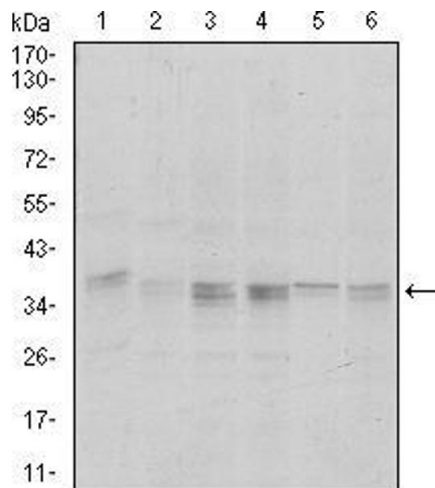
Product cited in:	Chen, Kesler, Paschal, Balk: "Androgen receptor phosphorylation and activity are regulated by an association with protein phosphatase 1." in: The Journal of biological chemistry , Vol. 284, Issue 38, pp. 25576-84, (2009) (PubMed).
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Perry, Yang, Soora, Salma, Marback, Naghibi, Ilyas, Chan, Gordon, McDermott: "Direct interaction between myocyte enhancer factor 2 (MEF2) and protein phosphatase 1alpha represses MEF2-dependent gene expression." in: **Molecular and cellular biology**, Vol. 29, Issue 12, pp. 3355-66, (2009) ([PubMed](#)).



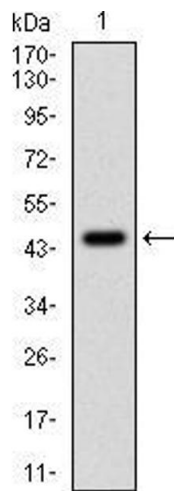
ELISA

Image 1. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),



Western Blotting

Image 2. Western blot analysis using PPP1CA mouse mAb against HeLa (1), HepG2 (2), MCF-7 (3), Jurkat (4) and A549 (5) cell lysate.



Western Blotting

Image 3. Western blot analysis using PPP1CA mAb against human PPP1CA (AA: 174-330) recombinant protein. (Expected MW is 43.4 kDa)