

Datasheet for ABIN969359

anti-PPP1CA antibody[Go to Product page](#)**1** Image**2** Publications

Overview

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

Product Details

Immunogen:	Purified recombinant fragment of human PPP1A expressed in E. coli.
Clone:	6D1
Isotype:	IgG1
Purification:	purified

Target Details

Target:	PPP1CA
Alternative Name:	PPP1A (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 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

Target Details

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, MGC1674, MGC15877, PP1alpha, PPP1CA

Molecular Weight: 38 kDa

Gene ID: 5499

HGNC: 5499

Pathways: [M Phase](#), [Cellular Glucan Metabolic Process](#), [Regulation of Carbohydrate Metabolic Process](#), [Lipid Metabolism](#)

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000

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

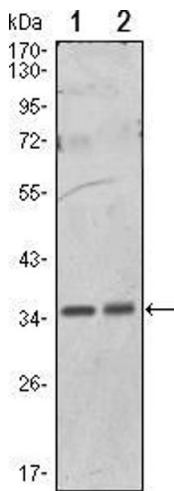
Storage Comment: 4°C, -20°C for long term storage

Publications

Product cited in: Luo, Peterson, Garcia, Coombs, Kofahl, Heinrich, Shabanowitz, Hunt, Yost, Virshup: "Protein phosphatase 1 regulates assembly and function of the beta-catenin degradation complex." in: **The EMBO journal**, Vol. 26, Issue 6, pp. 1511-21, (2007) ([PubMed](#)).

Eto, Kirkbride, Elliott, Lo, Brautigan: "Association of the tensin N-terminal protein-tyrosine phosphatase domain with the alpha isoform of protein phosphatase-1 in focal adhesions." in:

Images



Western Blotting

Image 1. Western blot analysis using PPP1A mouse mAb against Hela (1) and NIH/3T3 (2) cell lysate.