# .-online.com antibodies

# Datasheet for ABIN2856071 anti-PPP1CA antibody (Center)

5 Images

1 Publication



#### Overview

Quantity:	100 μL
Target:	PPP1CA
Binding Specificity:	Center
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPP1CA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (IF)

# Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human PPP1A. The exact sequence is proprietary.
lsotype:	lgG
Cross-Reactivity:	Cow (Bovine), Mouse (Murine)
Cross-Reactivity (Details):	Mouse (100 %), Bovine (100 %)
Characteristics:	Rabbit Polyclonal antibody to PPP1A (protein phosphatase 1, catalytic subunit, alpha isozyme) PPP1A antibody
Purification:	Purified by antigen-affinity chromatography.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN2856071 | 01/15/2024 | Copyright antibodies-online. All rights reserved.

# Target Details

Target:	PPP1CA
Alternative Name:	PPP1A (PPP1CA Products)
Background:	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.
	Cellular Localization: Cytoplasm
Molecular Weight:	38 kDa
Gene ID:	5499
Pathways:	M Phase, Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process,
	Lipid Metabolism
Application Details	

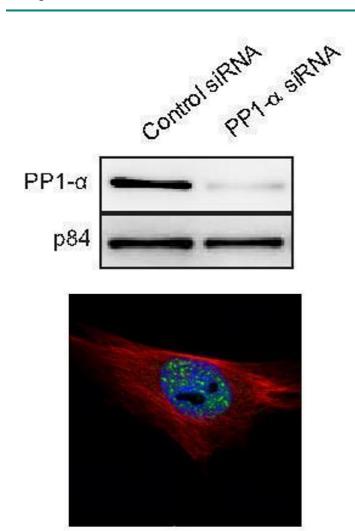
Application Notes:	Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded
	sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal
	dilutions/concentrations should be determined by the researcher.Suggested
	dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-
	1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: 293T , A431 , rat brain
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Concentration:	0.58 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN2856071 | 01/15/2024 | Copyright antibodies-online. All rights reserved.

Handling	
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Publications	
Product cited in:	Wei, Ngo, Wu, Lee: "Phosphorylation of the Ndc80 complex protein, HEC1, by Nek2 kinase modulates chromosome alignment and signaling of the spindle assembly checkpoint." in: <b>Molecular biology of the cell</b> , Vol. 22, Issue 19, pp. 3584-94, (2012) (PubMed).

## Images



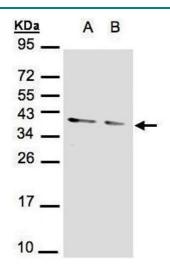
### Western Blotting

**Image 1.** WB Image WB to detect PP1 alpha from U2OS cells treated with control siRNA or PP1 alpha siRNA, using at 1:1000 dilution. Nuclear matrix protein p84 is a loading control, blotted with p84 antibody (clone 5E10) at 1:5000 dilution.

#### Immunofluorescence

**Image 2.** ICC/IF Image Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed HeLa, using PPP1A, antibody (Green) at 1:500 dilution. Alphatubulin filaments were labeled with (Red) at 1:2500.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN2856071 | 01/15/2024 | Copyright antibodies-online. All rights reserved.



#### Western Blotting

**Image 3.** WB Image Sample(30 µg of whole cell lysate) A:293T B:A431, 12% SDS PAGE antibody diluted at 1:1000

Please check the product details page for more images. Overall 5 images are available for ABIN2856071.