

## Product datasheet for **TA344247**

### PPP1A (PPP1CA) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PPP1CA antibody: synthetic peptide directed towards the N terminal of human PPP1CA. Synthetic peptide located within the following region: MSDSEKLNLDISIIGRLLGSRVLTTPHCAPVQGSRPVKNVQLTENEIRGLC
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	38 kDa
Gene Name:	protein phosphatase 1 catalytic subunit alpha
Database Link:	<a href="#">NP_002699</a> <a href="#">Entrez Gene 5499 Human</a> <a href="#">P62136</a>



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**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.

**Synonyms:**

PP-1A; PP1A; PP1alpha; PPP1A

**Note:**

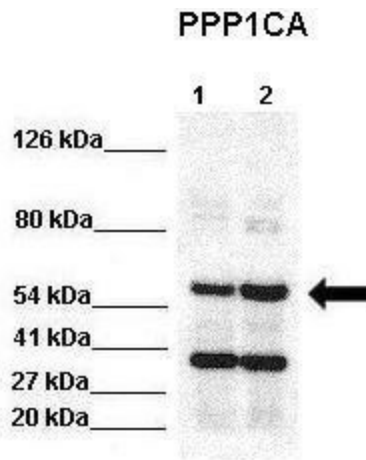
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%

**Protein Families:**

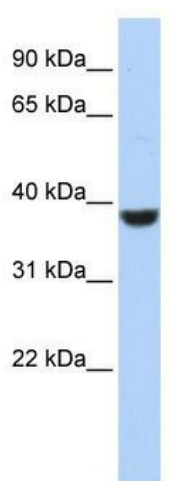
Druggable Genome, Phosphatase

**Protein Pathways:**

Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction

**Product images:**


WB Suggested Anti-PPP1CA Antibody ; Positive Control: Lane 1: 40ug HEK293 lysate Lane 2: 40ug H1299 lysate; Primary Antibody Dilution : 1:1000; Secondary Antibody : Goat anti-rabbit-HRP; Secondary Antibody Dilution : 1:5000; Submitted by: Jose Luis Rosa, U



WB Suggested Anti-PPP1CA Antibody Titration:  
0.2-1 ug/ml; ELISA Titer: 1:1562500; Positive  
Control: Jurkat cell lysate PPP1CA is supported by  
BioGPS gene expression data to be expressed in  
Jurkat