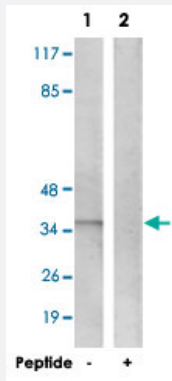


# PPP1CA polyclonal antibody

Catalog # PAB18261      Size 100 ug

## Applications



### Western Blot (Cell lysate)

Western blot analysis of extracts from Jurkat cells, using PPP1CA polyclonal antibody (Cat # PAB18261).

Peptide "+" means "peptide blocking".

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of PPP1CA.
<b>Immunogen</b>	A synthetic peptide corresponding to residues surrounding T320 of human PPP1CA.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Specificity</b>	This antibody is specific to PPP1CA.
<b>Form</b>	Liquid
<b>Purification</b>	Affinity purification
<b>Concentration</b>	1 mg/mL
<b>Recommend Usage</b>	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

**Storage Instruction**

Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from Jurkat cells, using PPP1CA polyclonal antibody (Cat # PAB18261).  
Peptide "+" means "peptide blocking".

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — PPP1CA

**Entrez GeneID** [5499](#)

**Protein Accession#** [P62136](#)

**Gene Name** PPP1CA

**Gene Alias** MGC15877, MGC1674, PP-1A, PPP1A

**Gene Description** protein phosphatase 1, catalytic subunit, alpha isoform

**Omim ID** [176875](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

protein phosphatase 1, catalytic subunit, alpha|serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit

## Publication Reference

- [Binding of the concave surface of the Sds22 superhelix to the alpha 4/alpha 5/alpha 6-triangle of protein phosphatase-1.](#)

Ceulemans H, Vulsteke V, De Maeyer M, Tatchell K, Stalmans W, Bollen M.

The Journal of Biological Chemistry 2002 Dec; 277(49):47331.

- [Protein phosphatase 1--targeted in many directions.](#)

Cohen PT.

J Cell Sci 2002 Jan; 115(Pt 2):241.

Application: WB, Human, Mammalian cells

## Pathway

- [Focal adhesion](#)
- [Insulin signaling pathway](#)
- [Long-term potentiation](#)
- [Regulation of actin cytoskeleton](#)
- [Vascular smooth muscle contraction](#)