

## PP1 Alpha Monoclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-MCA1045
<b>Host</b>	Mouse
<b>Isotype</b>	IgG
<b>Size</b>	50ul, 100ul
<b>Immunogen</b>	Purified recombinant human PP1 $\alpha$ (N-terminus) protein fragments expressed in E.coli.
<b>Mol wt</b>	N/A
<b>Species reactivity</b>	Human,Mouse,Rat,Bovine,Chicken,Pig,Rabbit,Zebrafish
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB, IF, ICC
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Serine,threonine-protein phosphatase PP1-alpha catalytic subunit
<b>Synonyms</b>	PPP1CA; PPP1A; Serine; threonine-protein phosphatase PP1-alpha catalytic subunit; PP-1A

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### 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.

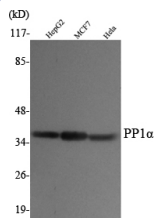
### Recommended Dilution

IF: 1:100 - 1:500

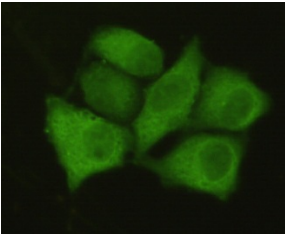
WB: 1:1000 - 1:2000

Not yet tested in other applications.

### Images



Western Blot analysis using PP1Alpha Monoclonal antibody against HepG2, MCF7, HeLa cell lysate.



Immunofluorescence analysis of HeLa cells using PP1Alpha Monoclonal antibody.

### Storage

-20°C for one year

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