

## ARG56912 anti-PPM1A antibody [p6c7]

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [p6c7] recognizes PPM1A
Tested Reactivity	Hu, Ms
Tested Application	IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	p6c7
Isotype	IgG2b, kappa
Target Name	PPM1A
Species	Human
Immunogen	Recombinant fragment around aa. 1-382 of Human PPM1A.
Conjugation	Un-conjugated
Alternate Names	PP2C-alpha; EC 3.1.3.16; PP2C-ALPHA; Protein phosphatase 1A; PP2Calpha; Protein phosphatase 1A; PP2CA; Protein phosphatase 2C isoform alpha

### Application Instructions

Application table	Application	Dilution
	IP	Assay-dependent
	WB	1:250 - 1:500

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

### Database links

[GeneID: 19042 Mouse](#)

[GeneID: 5494 Human](#)

[Swiss-port # P35813 Human](#)

[Swiss-port # P49443 Mouse](#)

### Gene Symbol

PPM1A

### Gene Full Name

protein phosphatase, Mg<sup>2+</sup>/Mn<sup>2+</sup> dependent, 1A

### Background

The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

### Function

Enzyme with a broad specificity. Negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling. Dephosphorylates PRKAA1 and PRKAA2. Plays an important role in the termination of TNF-alpha-mediated NF-kappa-B activation through dephosphorylating and inactivating IKKKB/IKKB. [UniProt]

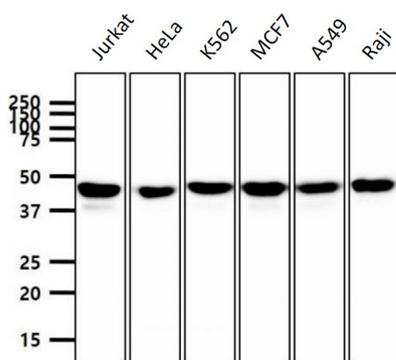
### Calculated Mw

42 kDa

### PTM

N-myristoylation is essential for the recognition of its substrates for dephosphorylation.

## Images



ARG56912 anti-PPM1A antibody [p6c7] WB image

Western blot: 40 µg of Jurkat, HeLa, K562, MCF7, A549 and Raji cell lysates stained with ARG56912 anti-PPM1A antibody [p6c7] at 1:1000 dilution.

ARG56912 anti-PPM1A antibody [p6c7] WB image

Western blot: 40 µg of Mouse kidney, Mouse brain and Mouse liver lysates stained with ARG56912 anti-PPM1A antibody [p6c7] at 1:1000 dilution.

