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# **Human PP2C alpha/PPM1A antibody**

Catalog Number: ATGA0529

### **PRODUCT INFORMATION**

## Catalog number

ATGA0529

#### Clone No.

p6C7

#### **Product type**

Monoclonal antibody

#### UnitProt No.

P35813

#### **NCBI Accession No.**

NP 066283

#### **Alternative Names**

Pyruvate dehydrogenase phosphatase catalytic subunit 1, Pyruvate dehydrogenase acetyl-transferring-phosphatase 1, Protein phosphatase Mg2+/Mn2+dependent 1A, Protein phosphatase 2C, Protein phosphatase 1A (formerly 2C) magnesium-dependent alpha isoform, Protein phosphatase 1A (formerly 2C), PPM2C, PPM1A, PP2CA, PP2C alpha, PDPC 1, PDP 1, PDP, MGC9201, FLJ42306, EC 3.1.3.43

#### **Additional Information**

This product was produced from tissue culture supernatant.

# **PRODUCT SPECIFICATION**

# **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human PP2Calpha/PPM1A (1-382aa) purified from E. coli

#### Isotype

IgG2b kappa

#### **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, ICC/IF



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#### **Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

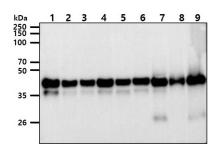
Protein phosphatase 2C (PP2Calpha) is a Mn2+ - or Mg 2+ -dependent protein serine/threonine phosphatase that inhibits the human stress-responsive p38 and JNk MAPk pathways and regulates cellular stress response in eukaryotes. The PPM (metal-dependent protein phosphatase) family of Ser/Thr protein phosphatases have recently been shown to down-regulate the stress response pathways in eukaryotes. Within the stress pathway, key signalingkinases, which are activated by protein phosphorylation, have been proposed as the in vivo substrates of PP2Calpha, the prototypical member of the PPM family.

### **General References**

Lin X, et al., (2006) Cell. 125(5): 915-928. Duan X, et al., (2006) J Biol Chem. 281(48):36526-32.

# **DATA**

# Western blot analysis (WB)



The cell lysates (40ug) and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman PP2C alpha/PPM1A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : Jurkat cell lysate Lane 2 : HeLa cell lysate Lane 3 : K-562 cell lysate Lane 4 : MCF7 cell lysate Lane 5 : A549 cell lysate Lane 6 : Raji cell lysate

Lane 7 : Mouse kidney tissue lysate Lane 8 : Mouse brain tissue lysate Lane 9 : Mouse liver tissue lysate

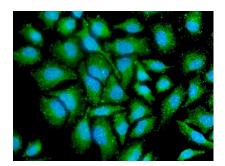
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of PP2C alpha/PPM1A in HeLa cells. The cell was stained with ATGA0529 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

