# 磷酸化蛋白磷酸酶 2C 亚型 α 抗体

**产品货号：** mIR5586

**英文名称：** phospho-PPM1A (Ser375)

**中文名称：** 磷酸化蛋白磷酸酶 2C 亚型 α 抗体

**别　　名：** PPM1A(phospho Ser375); PPM1A(phospho S375); Mpp alpha; PP2C alpha; PP2C-alpha; PP2CA; PPM 1A; PPM1A; PPM1A_HUMAN; PPPM1A; Protein phosphatase 1A (formerly 2C) magnesium dependent alpha isoform; Protein phosphatase 1A; Protein phosphatase 1A magnesium dependent alpha; Protein phosphatase 2C alpha; Protein phosphatase 2C alpha isoform; Protein phosphatase 2C isoform alpha; Protein phosphatase IA; Protein phosphatase 2C isoform alpha; IA antibody.

**产品类型：** 磷酸化抗体

**研究领域：** 免疫学　染色质和核信号　信号转导　激酶和磷酸酶

**抗体来源：** Rabbit

**克隆类型：** Polyclonal

**交叉反应　：** Human, Dog, Cow, Sheep, Guinea Pig,

**产品应用：** WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

**分 子 量：** 42kDa

**细胞定位：** 细胞核 细胞浆

**性　　状：** Lyophilized or Liquid

**浓　　度：** 1mg/ml

**免 疫 原：** KLH conjugated Synthesised phosphopeptide derived from human PPM1A around the phosphorylation site of Ser375:TD(p-S)TS

**亚　　型：** IgG

**纯化方法：** affinity purified by Protein A

**储 存 液：** 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

**保存条件：** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted

in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PubMed :  PubMed**

**产品介绍 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.

**Subunit:**

Monomer. Interacts with SMAD2; the interaction dephosphorylates SMAD2 in its C-terminal SXS motif resulting in disruption of the SMAD2/SMAD4 complex, SMAD2 nuclear export and termination of the TGF-beta-mediated signaling. Interacts with SMAD2; the interaction dephosphorylates SMAD2 in its C-terminal SXS motif resulting in disruption of the SMAD2/SMAD4 complex, SMAD2 nuclear export and termination of the TGF-beta-mediated signaling.

**Subcellular Location:**

Nucleus.

**Similarity:**

Belongs to the PP2C family.

**SWISS:**

P35813

**Gene ID:**

5494

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**产品图片**