



## Product Information Sheet

### Polyclonal Anti- Protein Phosphatase 2A Catalytic, **PP2A** (Magnetic Bead Conjugate)

**Catalogue No.** PA1068-M

**Lot No.** 05D01

**Ig type:** rabbit IgG1

**Size:** 100µg/Vial

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Recommended application**

*Immunoprecipitation (IP)*

**Immunogen**

A synthetic peptide corresponding to a sequence mapping near the N-terminal of human PP2A, identical to the related rat and mouse sequence.

**Purification**

Immunogen affinity purified

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

#### BACKGROUND

The catalytic subunit of human protein phosphatase 2A (PPP2CA) encodes a 309-amino acid polypeptide. It is localized to chromosome 5. The gene (approximately 30 kbp) is composed of seven exons and six introns. It is predicted to be important for phosphatase enzymatic activity. Methylation of the C-terminal leucine residue (Leu309) of protein serine/threonine phosphatase 2A catalytic subunit (PP2AC) is known to regulate catalytic activity in vitro. Furthermore, PP2A has a fundamental role in cardiac function, and suggests that disturbances in protein phosphatase expression and activity may cause or exacerbate the course of cardiac diseases.

#### REFERENCE

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3. Khew-Goodall Y, Mayer RE, Maurer F, Stone SR, Hemmings BA. Structure and transcriptional regulation of protein phosphatase 2A catalytic subunit genes. *Biochemistry.* 1991 Jan 8; 30(1):89-97.
4. Arino J, Woon CW, Brautigan DL, Miller TB Jr, Johnson GL. Human liver phosphatase 2A: cDNA and amino acid sequence of two catalytic subunit isoforms. *Proc Natl Acad Sci U S A.* 1988 Jun; 85(12):4252-6.
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6. Gergs U, Boknik P, Buchwalow I, Fabritz L, Matus M, Justus I, Hanske G, Schmitz W, Neumann J. Overexpression of the catalytic subunit of protein phosphatase 2A impairs cardiac function. *J Biol Chem.* 2004 Sep 24; 279(39):40827-34.

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