



## Product Information Sheet

### Monoclonal Anti-p34<sup>cdc2</sup> (Magnetic Bead Conjugate)

**Catalogue No.** MA1077-M

**Immunogen**

C-terminal two-thirds of *Xenopus* p34<sup>cdc2</sup> expressed in *E. coli*.

**Lot No.** 08A12

**Purification**

**Clone:** IMD-34

Purified by the goat anti-mouse IgG affinity chromatography.

**Ig type:** mouse IgG2a

**Formulation**

**Size:** 200µl

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

**Specificity**

Human, mouse, chicken.

No cross reactivity with other proteins.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation (IP)*

**Description**

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

### BACKGROUND

P34(cdc2), also known as cell division cycle(CDC2), or cyclin-dependent kinase 1(CDK1). CDC2 is a catalytic subunit of a protein kinase complex, called the M-phase promoting factor, that induces entry into mitosis and is universal among eukaryotes. In HeLa cells CDC2 is the most abundant phosphotyrosine-containing protein and its phosphotyrosine content is subject to cell cycle regulation. CDC2 gene is located on chromosome 10

### REFERENCE

- 1 Draetta, G.; Piwnicka-Worms, H.; Morrison, D.; Druker, B.; Roberts, T.; Beach, D. : Human CDC2 protein kinase is a major cell-cycle regulated tyrosine kinase substrate. *Nature* 336: 738-744, 1988.
2. Spurr, N. K.; Goodfellow, P. N.; Nurse, P.; Lee, M. : Assignment of the human homologue of the yeast cell cycle control gene CDC2 to chromosome 10. (Abstract) *Cytogenet. Cell Genet.* 46: 698, 1987.
3. Nazarenko, S. A.; Ostroverhova, N. V.; Spurr, N. K. : Regional assignment of the human cell cycle control gene CDC2 to chromosome 10q21 by in situ hybridization. *Hum. Genet.* 87: 621-622, 1991.

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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: [Info@antageneinc.com](mailto:Info@antageneinc.com)