



## Product Information Sheet

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### Monoclonal Anti-CDK4 - conjugated to Magnetic Beads

**Catalogue No.** MA1020-M

**Immunogen**

Recombinant human Cdk4 protein.

**Lot No.** 08A12

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Clone:** IML-4

**Ig type:** mouse IgG2a

**Formulation**

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

**Size:** 200µl

**Specificity**

Human, mouse, rat.

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

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. Human cell division is regulated primarily at the G1-to-S or the G2-to-M boundaries within the cell cycle. The complexes formed by CDK4 and the D-type cyclins are involved in the control of cell proliferation during the G1 phase. CDK4 is inhibited by p16, also known as cyclin-dependent kinase inhibitor-2. CDK4 is mapped to 12q14. CDK4 expression and activity are required for cytokine responsiveness in T cells.

### REFERENCE

1. Demetrick, D. J.; Zhang, H.; Beach, D. H. : Chromosomal mapping of human CDK2, CDK4, and CDK5 cell cycle kinase genes. *Cytogenet. Cell Genet.* 66: 72-74, 1994.
  2. Modiano, J. F.; Mayor, J.; Ball, C.; Fuentes, M. K.; Linthicum, D. S. : CDK4 expression and activity are required for cytokine responsiveness in T cells. *J. Immun.* 165: 6693-6702, 2000.
- e for human proliferating nuclear antigen/cyclin by in situ hybridization. Hum. Genet.* 86: 84-86, 1990.

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