



Product Information Sheet

Monoclonal Anti-CDK4

Catalogue No. MA1020

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

Application

Western blot

Size: 100µg/vial

At 0.5-1µg/ml with the appropriate system to detect Cdk4 in cells and tissues.

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Immunocytochemistry

Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Recommended application

Western blot

Immunocytochemistry

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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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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