



Product Information Sheet

Monoclonal Anti-CDK4 (Sephacrose Bead Conjugate)

Catalogue No. MA1020-S

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

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Size: 200µl

Storage

Store at 4°C for frequent use.

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

Recommended application

Immunoprecipitation(IP)

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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