



Product Information Sheet

Monoclonal Anti-p34^{cdc2} (Sepharose Bead Conjugate)

Catalogue No. MA1077-S

Lot No. 08A12

Clone: IMD-34

Ig type: mouse IgG2a

Size: 200µl

Specificity

Human, mouse, chicken.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

C-terminal two-thirds of *Xenopus* p34cdc2 expressed in *E. coli*.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Formulation

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

Storage

Store at 4°C for frequent use.

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

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.; Piwnica-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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