



Product Information Sheet

Monoclonal Anti-Cyclin D1

Catalogue No. MA1033

Immunogen

Recombinant human cyclin D₁ protein.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: CY-D1

Ig type: mouse IgG2a

Application

Western blot

Size: 100µg/vial

At 4µg/ml with the appropriate system to detect cyclin D1 in cells and tissues.

Specificity

Human, mouse, rat.

Immunohistochemistry(P)

No cross reactivity with other proteins.

At 8µg/ml to detect cyclin D1 in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 8µg/ml to detect cyclin D1 in formalin or acetone fixed tissues.

Recommended application

Immunocytochemistry

Suitable

Western blot

Other applications have not been tested.

Immunohistochemistry(P)

Optimal dilutions should be determined by end user.

Immunohistochemistry(F)

Immunocytochemistry

Formulation

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

Reconstitution

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

To reorder contact us at:

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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.

BACKGROUND

D-type cyclins (cyclins D1, D2, and D3) are regarded as essential links between cell environment and the core cell cycle machinery. CyclinD1(CCND1), also known as BCL1. Expression of cyclin D1, but not of cyclins A and E, was induced by transfection of the RB gene into RB-deficient tumor cells. CCND1 gene to 11q13. cyclin D1 gene can function as an oncogene. Cyclin D1 expression is regulated by the

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retinoblastoma protein.

REFERENCE

1. Rosenberg, C. L.; Kim, H. G.; Shows, T. B.; Kronenberg, H. M.; Arnold, A. : Rearrangement and overexpression of D11S287E, a candidate oncogene on chromosome 11q13 in benign parathyroid tumors. *Oncogene* 6: 449-453, 1991.
2. Muller, H.; Lukas, J.; Schneider, A.; Warthoe, P.; Bartek, J.; Eilers, M.; Strauss, M. : Cyclin D1 expression is regulated by the retinoblastoma protein. *Proc. Nat. Acad. Sci.* 91: 2945-2949, 1994.
3. Hinds, P. W.; Dowdy, S. F.; Eaton, E. N.; Arnold, A.; Weinberg, R. A. : Function of a human cyclin gene as an oncogene. *Proc. Nat. Acad. Sci.* 91: 709-713, 1994.