

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Cdk2 (h): 293T Lysate: sc-128295



Genetic locus: CDK2 (human) mapping to 12q13.2.

CHROMOSOMAL LOCATION

total of eight such regulatory proteins in mammals. In contrast to the situation in yeast, the Cdc2 p34 kinase is not the only catalytic subunit identified in vertebrates that can interact with cyclins. While Cdc2 p34 is essential for the G₂ to M transition in vertebrate cells, a second Cdc2-related kinase has also been implicated in cell cycle control. This protein, designated cyclin dependent kinase 2 (Cdk2) p33, also binds to cyclins and its kinase activity is temporally regulated during the cell cycle. Several additional Cdc2 p34related cyclin dependent kinases have been identified. These include Cdk3-Cdk8, PCTAIRE-1-3 and KKIALRE.

In vertebrates, as in yeast, multiple cyclins have been identified, including a

REFERENCES

BACKGROUND

- 1. Riabowol, K., Draetta, G., Brizuela, L., Vandre, D. and Beach, D. 1989. The Cdc2 kinase is a nuclear protein that is essential for mitosis in mammalian cells. Cell 57: 393-401.
- 2. Morla, A.O., Draetta, G., Beach, D. and Wang, J.Y. 1989. Reversible tyrosine phosphorylation of Cdc2: dephosphorylation accompanies activation during entry into mitosis. Cell 58: 193-203.
- 3. Pines, J. and Hunter, T. 1989. Isolation of a human cyclin cDNA: evidence for cyclin mRNA and protein regulation in the cell cycle and for interaction with p34cdc2. Cell 58: 833-846.
- 4. Kobayashi, H., Golsteyn, R., Poon, R., Stewart, E., Gannon, J., Minshull, J., Smith, R. and Hunt, T. 1991. Cyclins and their partners during *Xenopus* oocyte maturation. Cold Spring Harb. Symp. Quant. Biol. 56: 437-447.
- 5. Xiong, Y., Connolly, T., Futcher, B. and Beach, D. 1991. Human D-type cyclin. Cell 65: 691-699.
- 6. Pagano, M., Pepperkok, R., Verde, F., Ansorge, W. and Draetta, G. 1992. Cyclin A is required at two points in the human cell cycle. EMBO J. 11: 961-971.
- 7. Elledge, S.J., Richman, R., Hall, F.L., Williams, R.T., Lodgson, N. and Harper, J.W. 1992. Cdk2 encodes a 33 kDa cyclin A-associated protein kinase and is expressed before Cdc2 in the cell cycle. Proc. Natl. Acad. Sci. USA 89: 2907-2911.
- 8. Lukas, J., Draetta, G. and Bartek, J. 1992. Distinct forms of human Cdc2 identified by novel monoclonal antibodies. Eur. J. Biochem. 207: 169-176.
- 9. O'Connor, P.M., Ferris, D.K., Pagano, M., Draetta, G., Pines, J., Hunter, T., Longo, D.L. and Kohn, K.W. 1993. G₂ delay induced by nitrogen mustard in human cells affects cyclin A/Cdk2 and cyclin B1/Cdc2-kinase complexes differently. J. Biol. Chem. 268: 8298-8308.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

PRODUCT

Cdk2 (h): 293T Lysate represents a lysate of human Cdk2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

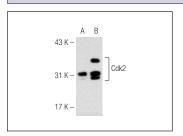
APPLICATIONS

Cdk2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Cdk2 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Cdk2 (55): sc-136191 is recommended as a positive control antibody for Western Blot analysis of enhanced human Cdk2 expression in Cdk2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Cdk2 (55): sc-136191. Western blot analysis of Cdk2 expression in non-transfected: sc-117752 (A) and human Cdk2 transfected: sc-128295 (B) 293T whole

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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