
anti-Cyclin A

Cat #: HM1102
Rabbit polyclonal IgG
0.2 µg/µ, store at 4 °C

For research use only

APPLICATIONS

Cell cycle progression is controlled by distinct protein kinase complexes. These complexes consist of a regulatory subunit (cyclin and related proteins) and a catalytic subunit (cyclin-dependent kinases-cdks). The expressions of cyclins oscillate through the cell cycle and they regulate cell cycle by activating cdks. Cyclin A is a 60KD protein that associates with Cdk2 p33 and functions in S phase.

SPECIFICITY

This antibody specifically recognizes Cyclin A of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A synthetic peptide derived from C-terminus of human Cyclin A protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

1. Murray, A.W. and Kirschner, M.W. (1989). Dominoes and clocks: the union of two views of the cell cycle. *Science* 246: 614-621.
2. Zhang H, Kobayashi R, Galaktionov K, Beach D. (1995). p19Skp1 and p45Skp2 are essential elements of the cyclin A-CDK2 S phase kinase. *Cell*. 82:915-25.
3. Devoto SH, Mudryj M, Pines J, Hunter T, Nevins JR. (1992) A cyclin A-protein kinase complex possesses sequence-specific DNA binding activity: p33cdk2 is a component of the E2F-cyclin A complex. *Cell*. 68:167-76.
4. Girard F, Strausfeld U, Fernandez A, Lamb NJ. (1991) Cyclin A is required for the onset of DNA replication in mammalian fibroblasts. *Cell*. 67:1169-79.
5. Tsai LH, Harlow E, Meyerson M. (1991) Isolation of the human cdk2 gene that encodes the cyclin A- and adenovirus E1A-associated p33 kinase. *Nature*. 353:174-7.
6. Bandara LR, Adamczewski JP, Hunt T, La Thangue NB. (1991) Cyclin A and the retinoblastoma gene product complex with a common transcription factor. *Nature*. 352:249-51.

7. Lees, E., Faha, B., Dulic, V., Reed, S.I., and Harlow, E. (1992). Cyclin E/cdk2 and cyclin A/cdk2 kinases associate with p107 and E2F in a temporally distinct manner. *Genes and Dev*. 6: 1874-1885.

PRODUCT FROM HYPROMATRIX, INC.**A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™
Catalog Number HM3000
2. Apoptosis AntibodyArray™
Catalog Number HM4000
3. Cell Cycle AntibodyArray™
Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
Catalog Number HM8100
2. AntibodyArray Staining Apparatus
Catalog Number HM8000

C. Antibodies**1. HRP-conjugated antibodies**

- anti-phosphotyrosine
Catalog Number HM2040
- anti-phosphoserine
Catalog Number HM2070
- anti-phosphothreonine
Catalog Number HM2090

and more...

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT

Hypromatrix, Inc.
100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com