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**anti-Cyclin E**

Cat #: HM1105  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

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. The transition into S phase is dependent on the increased expression and association of cyclin E and Cdk2. Cyclin E has been found to associate with E2F, a transcription factor known to be critical for expression of several S phase specific proteins. The cyclin E/E2F complex is detected primarily in the G1 phase of the cell cycle and decreases as cells enter S phase.

**SPECIFICITY**

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

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

**IMMUNOGEN**

A peptide mapping at the carboxy terminus of cyclin E of human origin.

**STORAGE**

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

**REFERENCE**

1. Evans, T., Rosenthal, E.T., Youngblom, J., Distel D., and Hunt, T. 1983. cyclin: a protein specified by maternal mRNA in sea urchin eggs that is destroyed at each cleavage division. *Cell* 33: 389-396.
2. Swenson, K.I., Farrell, K.M., and Ruderman, J.V. 1986. The clam embryo protein cyclin A induces entry into M phase and the resumption of meiosis in *Xenopus* oocytes. *Cell* 47: 861-870.
3. Soloman, M.J., Glotzer, M., Lee, T.H., Phillippe, M., and Kirschner, M.W. 1990. cyclin activation of p34cdc2. *Cell* 63: 1013-1024.
4. Murray, A.W., Solomon, M.J., and Kirschner, M.W. 1989. The role of cyclin synthesis and degradation in the control of maturation promoting factor activity. *Nature* 339: 280-286.
5. Lew, D.J., Dulic, V., and Reed, S.I. 1991. Isolation of three novel human cyclins by rescue of G1 cyclin (Cln) function in yeast. *Cell* 66: 1197-1206.

6. Koff, A., Cross, F., Fisher, A., Schumacher, J., Leguellec, Philippe, M., and Roberts, J.M. 1991. Human cyclin E, a new cyclin that interacts with two members of the CDC2 gene family. *Cell* 66: 1217-1228.
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.

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