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**anti-Cyclin B**

Cat #: HM1103  
Rabbit polyclonal IgG  
0.2 µg/µ, 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. In eukaryotic cells, G2 to M transition is initiated by a protein kinase known variously as maturation promoting factor (MPF). This protein kinase is composed of a catalytic subunit (Cdc2), a regulatory subunit (cyclin B) and a low molecular weight subunit p13Suc1. Tyrosine phosphorylation inhibits the Cdc2/cyclin B enzyme and tyrosine dephosphorylation occurring at the onset of mitosis, directly activates the pre-MPF complex. B-type cyclins also activate the Cdc25A and Cdc25B endogenous tyrosine phosphatase, of which Cdc2 is a physiological substrate.

**SPECIFICITY**

This antibody specifically recognizes Cyclin B 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 B of human origin.

**STORAGE**

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

**REFERENCE**

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**CONTACT**

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

Tel: 508-856-7900  
Fax: 508-302-0748  
Email: [contact@hypromatrix.com](mailto:contact@hypromatrix.com)  
Web: [www.hypromatrix.com](http://www.hypromatrix.com)