



**DELTA  
BIOLABS**

## ***DB013: cyclin B1 (C20)***

### **Background:**

During each cell cycle cyclins undergo periodic accumulation and destruction. As key regulators of the cell cycle the cyclins control important transitions by activating Cdks (1,2). Cyclin A regulates at least two cdks, Cdc2 p34 and Cdk2, and is believed to be necessary for progression through S phase and is active during the G2-M transition (1&3,4). Cyclin B1 also associates with Cdc2 p34 and this complex is requisite for the G2-M progression. The Cyclin B1/Cdc2 p34 complex is known as MPF, M-phase kinase, maturation-promoting factor, or M-phase specific histone kinase, is widely accepted as the trigger of mitosis in all organisms (5-9).

### **Origin:**

Cyclin B1 (C20) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the carboxy terminus of human cyclin B1.

### **Product Details:**

Each vial contains 200 µg/ml of affinity purified rabbit IgG, cyclin B1 (C20) *DB013*, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

### **Competition Studies:**

A blocking peptide is also available, *DB013P*, for use in competition studies. Each vial contains 100 µg of peptide in 0.5 ml PBS with 0.1% sodium azide and 100 µg BSA.

### **Specificity:**

Cyclin B1 (C20) *DB013* reacts with cyclin B1 of mouse, rat, and human origin by western blotting and immunohistochemistry.

### **Storage:**

Store this product at 4° C, do not freeze. The product is stable for one year from the date of shipment.

### **References:**

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4. Goldstone S, Pavey S, Forrest A, Sinnamon J, Gabrielli B. 2001. Cdc25-dependent activation of cyclin A/cdk2 is blocked in G2 phase arrested cells independently of ATM/ATR. *Oncogene* 20(8): 921-932.
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