



## ***DB106: cyclin B1 (V152)***

### **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 (V152) is provided as a mouse monoclonal IgG<sub>1</sub> derived from the fusion Sp2 myeloma cells with spleen cells from a mouse immunized with a polyhistidine tagged hamster cyclin B1.

### **Product Details:**

Each vial contains 100 µg/ml of mouse monoclonal IgG<sub>1</sub> cyclin B1 (V152) DB106, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

### **Specificity:**

Cyclin B1 (V152) DB106 reacts with cyclin B1 of mouse, hamster and human origin by Western blotting, immunoprecipitation, FACS, and immunohistochemistry (including paraffin-embedded sections). Western blotting starting dilution: 1:200.

### **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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