

## Recombinant Cyclin B1 (G2- & M-phase Cyclin) Antibody

Rabbit Monoclonal Antibody [Clone CCNB1/9242R]

Catalog No	Format	Size
891-RBM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
891-RBM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
891-RBM9-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

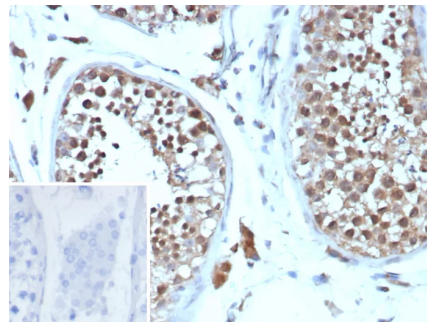
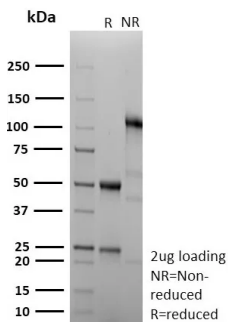
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	CCNB1/9242R
<b>Gene Name</b>	CCNB1
<b>Immunogen</b>	His-tagged recombinant hamster CCNB1 protein
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	55-62kDa
<b>Cellular Localization</b>	Cytoplasm.
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Cell line in logarithmic growth phase. Human tonsil Prostate or Ovarian Carcinoma.

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant Cyclin B1 (G2- & M-phase Cyclin) Antibody



SDS-PAGE Analysis of Purified Cyclin B1 Rabbit Recombinant Monoclonal Antibody (CCNB1/9242R). Confirmation of Integrity and Purity of Antibody.

Formalin-fixed, paraffin-embedded human testis stained with Cyclin B1 Rabbit Recombinant Monoclonal Antibody (CCNB1/9242R). Inset: PBS instead of primary antibody; secondary only negative control.

### Specificity & Comments

In eukaryotic cells, mitosis is initiated following the activation of a protein kinase known variously as maturation-promoting factor, M phase specific histone kinase or M-phase kinase. This protein kinase is composed of a catalytic subunit (Cdc2), a regulatory subunit (cyclin B) and a low molecular weight subunit (p13-Suc1). The Cdc/cyclin enzyme is subject to multiple levels of control, of which the regulation of the catalytic subunit by tyrosine phosphorylation is the best understood. Tyrosine phosphorylation inhibits the Cdc2/ cyclin B enzyme, and tyrosine dephosphorylation, occurring at the onset of mitosis, directly activates the pre-MPF complex. Evidence has established that B type cyclins not only act on M phase regulatory subunits of the Cdc2 protein kinase, but also activate the Cdc25A and Cdc25B endogenous tyrosine phosphatase, of which Cdc2 is the physiological substrate. The specificity of this effect is shown by the inability of either cyclin A or cyclin D1 to display any such stimulation of Cdc25A or Cdc25B.

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### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### Research Areas

Transcription Factors

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