



## Anti-Cyclin B1 (RABBIT) Antibody - 100-401-152

**Code:** 100-401-152

**Size:** 100 µL

**Product Description:** Anti-Cyclin B1 (RABBIT) Antibody - 100-401-152

**Concentration:** 80 mg/mL by Refractometry

**Physical State:** Liquid (sterile filtered)

<b>Label</b>	Unconjugated
<b>Host</b>	Rabbit
<b>Gene Name</b>	CCNB1
<b>Species Reactivity</b>	human, rat, mouse
<b>Buffer</b>	None
<b>Stabilizer</b>	None
<b>Preservative</b>	0.01% (w/v) Sodium Azide
<b>Storage Condition</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Synonyms</b>	rabbit anti-cyclin B1 antibody, G2/mitotic-specific cyclin-B1
<b>Application Note</b>	This antibody is suitable for use in ELISA, immunoblotting, immunoprecipitation, immunohistochemistry, and other immunological methods requiring high titer and specificity. Specific conditions for reactivity and detection of Cyclin B1 should be optimized by the end user. Expect a band approximately 55-66 kDa in size corresponding to Cyclin B1 by western blotting in the appropriate cell lysate or extract. H23 cells may be used as a positive control.
<b>Background</b>	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product forms a complex with p34 (cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites.
<b>Purity And Specificity</b>	This product was prepared from monospecific antiserum by delipidation and defibrillation. Antiserum will specifically react with a 55-62 kDa Cyclin B1 protein from human, rat and mouse tissue. No reaction was observed against other related cyclins. Cross reactivity with Cyclin B1 from other species may also occur.
<b>Assay Dilutions</b>	User Optimized
<b>ELISA</b>	1:2,000 - 1:10,000
<b>Western Blot</b>	1:500 - 1:1,000
<b>Immunohistochemistry</b>	1:500
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is one (1) year from date of opening.
<b>Immunogen</b>	Anti-Cyclin B1 antibody was produced by repeated immunizations of full length fusion protein corresponding to the human gene.
<b>General Reference</b>	Giordano, A., Whyte, P., Harlow, E., Franzia, B., Beach D. and Draetta, G. (1989) A 60 kd cdc-2 associated polypeptide complexes with the E1A proteins of adenovirus-infected cells. Cell 58; 981-990. Pines, J. and Hunter, T. (1990) Human cyclin A is adenovirus E1A-associated protein p60 and behaves differently from cyclin B. Nature 346; 760-763.
<b>Related Products</b>	
100-401-153	Anti-Cyclin D1 (RABBIT) Antibody - 100-401-153
600-401-398	Anti-ATM Protein Kinase S1981 (RABBIT) Antibody - 600-401-398
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

FEMTOMAX-110 Chemiluminescent FemtoMax™ Super Sensitive HRP Substrate for Microwell and/or Membrane (2 component system) - FEMTOMAX-110

## Related Links

UniProtKB - P14635

<http://www.uniprot.org/uniprot/P14635>

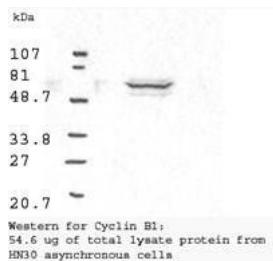
NCBI - 14327896 <http://www.ncbi.nlm.nih.gov/protein/14327896>

GeneID - 891

## Images

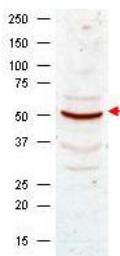
1

Western blot analysis using Rockland's Anti-Cyclin B1 antibody shows detection of human Cyclin B1 present in asynchronous HN30 cell lysates. HN30 cells are from head and neck cancer tumors that over express cyclin B1 and D1. Comparison to a molecular weight marker indicates a band of ~62 kDa corresponding to the expected molecular weight for the protein (arrowhead). The blot was incubated with a 1:500 dilution of the antibody for 1 h at room temperature. Detection occurred using a 1:10,000 of HRP conjugated Goat-a-Rabbit IgG 611-103-122 and chemiluminescence reagent with a 1-min exposure time. Other detection systems will yield similar results. Personal communication, Luca Côte, Temple University, Philadelphia, PA.



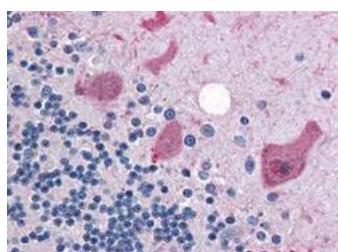
2

Western blot analysis using Rockland's anti-Cyclin B1 antibody shows detection of Cyclin B1 present in asynchronous HeLa cell lysates. Comparison to a molecular weight marker indicates a band of ~55 kDa corresponding to human Cyclin B1 (arrowhead). Approximately 50 µg of lysate was loaded onto a 7% SDS-PAGE gel for separation. After transfer to nitrocellulose, the blot was incubated with a 1:500 dilution of the antibody for 1 h at room temperature. Detection occurred using a 1:10,000 of HRP conjugated Goat-a-Rabbit IgG (p/n 611-103-122). Personal communication, Luca D'Agostino, Temple University, Philadelphia, PA.



3

Rockland's anti-Cyclin B1 antibody was diluted 1:500 to detect Cyclin B1 in human brain cerebellum tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.



## **Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.