

Datasheet for ABIN6940990

**anti-Cyclin B1 antibody**

8 Images

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## Overview

Quantity:	100 µg
Target:	Cyclin B1 (CCNB1)
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cyclin B1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant human full-length CCNB1 protein
Clone:	CCNB1-1098
Isotype:	IgG1 kappa
Specificity:	<p>It recognizes a protein of 55-62 kDa, identified as cyclin B1. In mammals, cyclin B associates with inactive p34cdc2, which facilitates phosphorylation of p34cdc2 at aa 14Thr and 15Tyr. This maintains the inactive state until the end of G2-phase. The inactive cyclin B-p34cdc2 complex continues to accumulate in the cytoplasm until the completion of DNA synthesis, when Cdc25, a specific protein phosphatase, dephosphorylates aa 14Thr and 15Tyr of p34cdc2 rendering the complex active at the G2/M boundary. This mitotic kinase complex remains active until the metaphase/anaphase transition when cyclin B is degraded. This degradation process is ubiquitin-dependent and is necessary for the cell to exit mitosis. So, cyclin B-p34cdc2 plays a critical role in G2 to M transition.</p>

## Product Details

Purification: Purified by Protein A/G

## Target Details

Target: Cyclin B1 (CCNB1)

Alternative Name: CCNB1 ([CCNB1 Products](#))

Molecular Weight: 55-62kDa

Gene ID: 891

UniProt: [P14635](#)

Pathways: [Cell Division Cycle](#), [AMPK Signaling](#), [Mitotic G1-G1/S Phases](#), [M Phase](#)

## Application Details

Application Notes: Positive Control: Cell line in logarithmic growth phase. Tonsil or testicular, endometrial, prostate or ovarian carcinoma.

Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

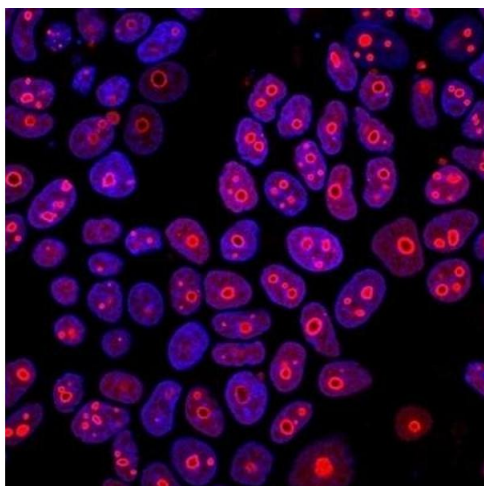
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

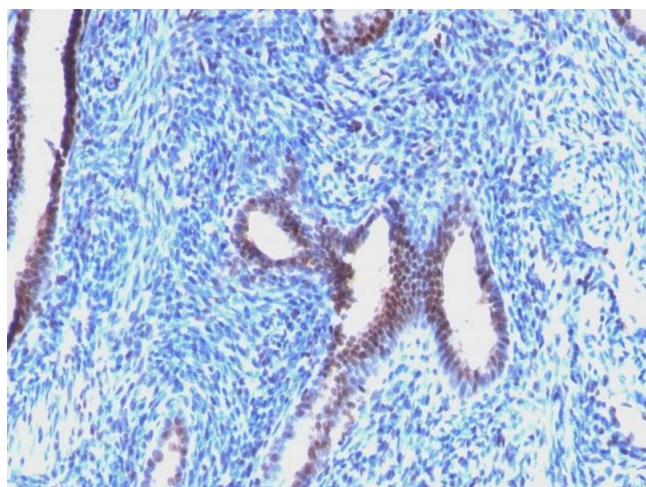
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



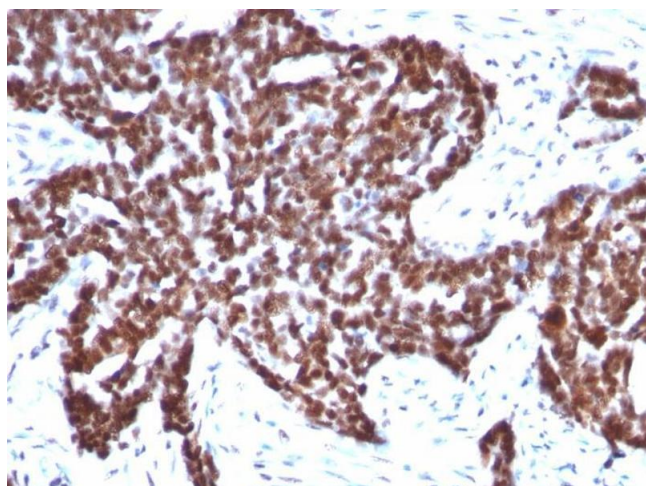
#### Immunofluorescence

**Image 1.** Immunofluorescence Analysis of formaldehyde-fixed MCF-7 cells stained with 5 µg/mL CF568 Mouse anti-Cyclin B1 (CCNB1/1098) (red) and Hoechst (blue).



#### Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with Cyclin B1 Mouse Monoclonal Antibody (CCNB1/1098).

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN6940990.