# Cyclin B1 (Phospho Ser126) (PT0070R) PT™ Rabbit mAb

CatalogNo: YM8038 Recombinant

## Key Features

Host Species
- Rabbit

Reactivity
- Human

Applications
- WB,IHC,IF,IP,ELISA

MW
- 48kD (Calculated)
55kD (Observed)

Isotype
- IgG, Kappa

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year (Do not lower than -25°C) |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |

## Recommended Dilution Ratios

**IHC 1:500-1:2000**
**WB 1:1000-1:5000**
**IF 1:200-1:1000**
**ELISA 1:5000-1:20000**
**IP 1:50-1:200,**

## Basic Information

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|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | PT0070R |

## Immunogen Information

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|---|---|
| **Immunogen** | The specific immunogen used to produce this antibody is proprietary information. |
| **Specificity** | This antibody detects endogenous levels of Cyclin B1 only when phosphorylated at Ser126.This antibody does not recognize phosphorylated at other sites. |

## Target Information

**Gene name** CCNB1 CCNB

**Protein Name** G2/mitotic-specific cyclin-B1

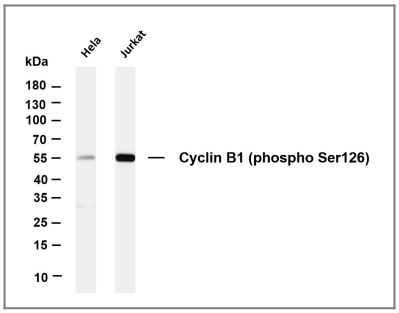
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 891; | P14635; |
| Mouse | 268697; | P24860; |
| Rat | 25203; | P30277; |

**Cellular Localization** Cytoplasm , Nuclear

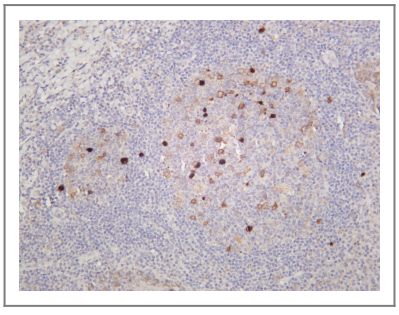
**Tissue specificity** Breast adenocarcinoma ,Lung ,Placenta ,

**Function** developmental stage:Accumulates steadily during G2 and is abruptly destroyed at mitosis. ,Function:Essential for the control of the cell cycle at the G2/M (mitosis) transition. ,PTM:Ubiquitinated by the SCF (NIPA) complex during interphase , leading to its destruction. Not ubiquitinated during G2/M phases. ,similarity:Belongs to the cyclin family. ,similarity:Belongs to the cyclin family. Cyclin AB subfamily. ,subunit:Interacts with the CDC2 protein kinase to form a serine/threonine kinase holoenzyme complex also known as maturation promoting factor (MPF) . The cyclin subunit imparts substrate specificity to the complex. Binds HEI10. Interacts with catalytically active RALBP1 and CDC2 during mitosis to form an endocytotic complex during interphase. ,

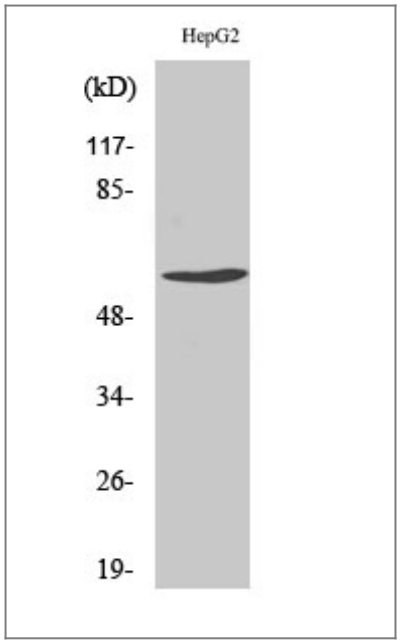
## Validation Data



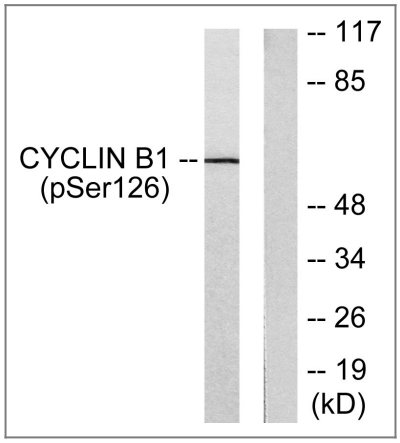

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cyclin B1 (phospho Ser126) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: Jurkat Predicted band size: 48kDa Observed band size: 55kDa



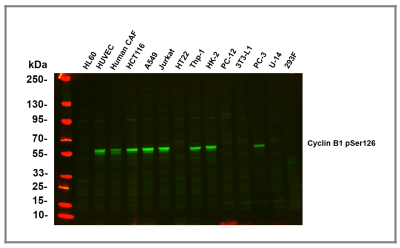
Human tonsil was stained with anti-Cyclin B1 (phospho Ser126) rabbit antibody



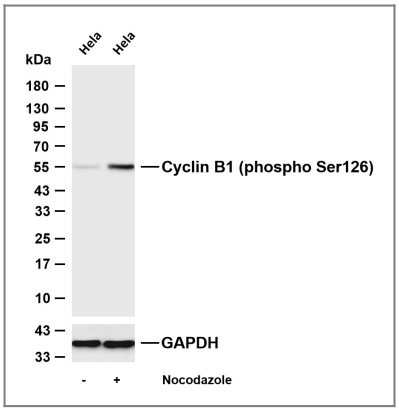

Western Blot analysis of various cells using Phospho-Cyclin B1 (S126) Antibody



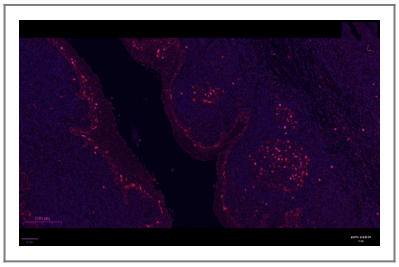

Western blot analysis of lysates from NIH/3T3 cells treated with EGF 200ng/ml 15', using Cyclin B1 (Phospho-Ser126) Antibody. The lane on the right is blocked with the phospho peptide.




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃ over night with a 1:2500 dilution . The Dilight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast cells Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Lane14: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 48kDa Observed band size: 55kDa




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cyclin B1 (phospho Ser126) (PT0070R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: Hela was treated with Nocodazole (100ng/ml) for 16 hours Predicted band size: 48kDa Observed band size: 55kDa



Fluorescence immunohistochemical analysis of Human tonsil

## Contact information


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|---|---|
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