# abcam

### Product datasheet

# Anti-Cyclin B1 antibody [EPR17060] ab181593





重组 RabMAb

34 References 12 图像

概述

产品名称 Anti-Cyclin B1抗体[EPR17060]

描述 兔单克隆抗体[EPR17060] to Cyclin B1

宿主 Rabbit

经测试应用 适用于: Flow Cyt (Intra), ICC/IF, IHC-P, WB

种属反应性 与反应: Mouse, Human

免疫原 Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: HeLa, Jurkat, C2C12 and NIH 3T3 cell lysates. IHC-P: Human tonsil, human lung squamous

cell carcinoma and mouse colon tissues. ICC/IF: HeLa and C2C12 cells. Flow Cyt (intra): Jurkat

cells.

常规说明 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

存储溶液 Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

纯度 Protein A purified

克降 单克降

克隆编号 EPR17060

同种型 ΙgG

## The Abpromise guarantee Abpromise™承诺保证使用ab181593于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/200. <b>ab172730</b> - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000. Detects a band of approximately 55 kDa (predicted molecular weight: 48 kDa).

#### 靶标

功能 Essential for the control of the cell cycle at the G2/M (mitosis) transition.

序列相似性 Belongs to the cyclin family. Cyclin AB subfamily.

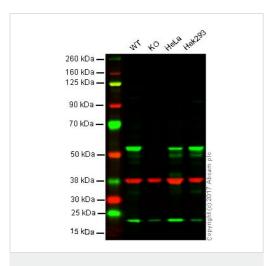
发展阶段 Accumulates steadily during G2 and is abruptly destroyed at mitosis.

翻译后修饰 Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its destruction. Not

ubiquitinated during G2/M phases.

细胞定位 Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > centrosome.

## 图片



Western blot - Anti-Cyclin B1 antibody [EPR17060] (ab181593)

**Lane 1:** Wild type HAP1 whole cell lysate (20 μg)

Lane 2: CCNB1 (KO) knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

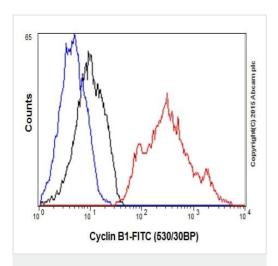
Lane 4: Hek293 whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab181593 observed at 55 kDa. Red - loading control, <u>ab8245</u>, observed at 37

kDa.

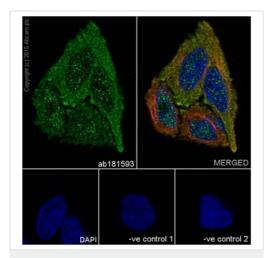
ab181593 was shown to recognize CCNB1 when CCNB1 knockout samples were used, along with additional cross-reactive bands. Wild-type and CCNB1 (KO) knockout samples were subjected to SDS-PAGE. Ab181593 and <u>ab8245</u> (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 2000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-

Rabbit IgG H&L (IRDye® 800CW) preabsorbed <u>ab216773</u> and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed <u>ab216776</u> secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-Cyclin B1 antibody [EPR17060] (ab181593)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling Cyclin B1 with ab181593 at 1/200 dilution (red) compared with a rabbit monoclonal lgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit lgG (FITC) at 1/500 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Cyclin B1 antibody [EPR17060] (ab181593) Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling Cyclin B1 with ab181593 at 1/500 dilution, followed by Goat anti-rabbit lgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

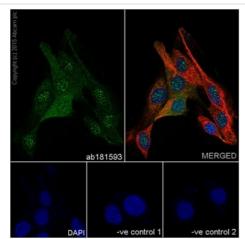
Confocal image showing cytoplasm and weak nuclear staining on HeLa cell line.

The nuclear counter stain is DAPI (blue).

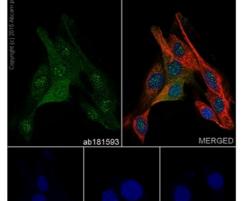
Tubulin is detected with <u>ab7291</u> (anti-Tubulin mouse mAb) at 1/1000 dilution and <u>ab150120</u> (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:

- 1. ab181593 at 1/500 dilution followed by <u>ab150120</u>
  (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.
- 2. <u>ab7291</u> (anti-Tubulin mouse mAb) at 1/1000 dilution followed by <u>ab150077</u> (Alexa Fluor®488 Goat Anti-Rabbit lgG H&L) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Cyclin B1 antibody [EPR17060] (ab181593)



(AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution. 2. ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit lgG H&L) at 1/1000 dilution.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C2C12 (Mouse myoblast cell line) cells labeling Cyclin B1 with ab181593 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary

Confocal image showing cytoplasm and nuclear staining on C2C12

Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse

1. ab181593 at 1/500 dilution followed by ab150120

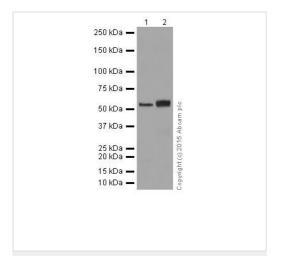
antibody at 1/1000 dilution (green).

The nuclear counter stain is DAPI (blue).

secondary) at 1/1000 dilution (red).

The negative controls are as follows:

cell line.



Western blot - Anti-Cyclin B1 antibody [EPR17060] (ab181593)

All lanes: Anti-Cyclin B1 antibody [EPR17060] (ab181593) at 1/10000 dilution

Lane 1: HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 2: Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

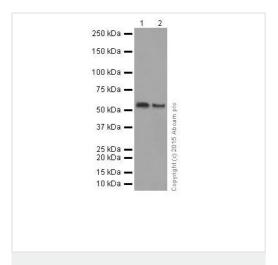
## Secondary

All lanes: Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/1000 dilution

Predicted band size: 48 kDa Observed band size: 55 kDa

Exposure time: 30 seconds

5% NFDM/TBST: Blocking and diluting buffer.



Western blot - Anti-Cyclin B1 antibody [EPR17060] (ab181593)

**All lanes :** Anti-Cyclin B1 antibody [EPR17060] (ab181593) at 1/2000 dilution

Lane 1: C2C12 (Mouse myoblast cell line) whole cell lysate

Lane 2: NIH 3T3 (Mouse embyro fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

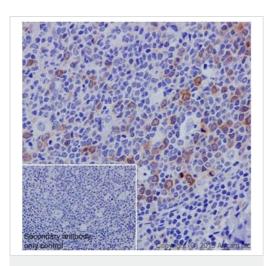
# **Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/1000 dilution

Predicted band size: 48 kDa Observed band size: 55 kDa

Exposure time: 30 seconds

5% NFDM/TBST: Blocking and diluting buffer.

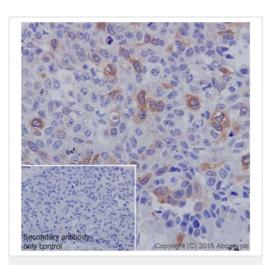


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cyclin B1 antibody
[EPR17060] (ab181593)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Cyclin B1 using ab181593 at 1/500 dilution. A Goat Anti-Rabbit lgG H&L (HRP) (ab97051) was used as secondary at 1/500 dilution. Cytoplasm staining on the germinal center of Human tonsil is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

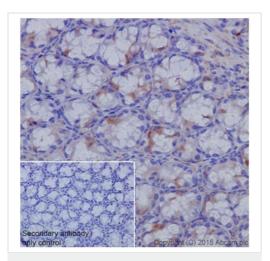


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cyclin B1 antibody
[EPR17060] (ab181593)

Immunohistochemical analysis of paraffin-embedded Human lung squamous cell carcinomal tissue labeling Cyclin B1 using ab181593 at 1/500 dilution. A Goat Anti-Rabbit IgG H&L (HRP) (ab97051) was used as secondary at 1/500 dilution. Cytoplasm staining on cancer cells of Human lung squamous cell carcinoma is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

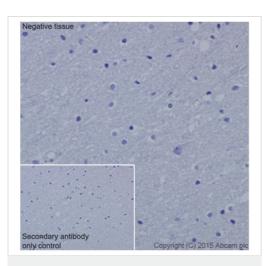


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cyclin B1 antibody
[EPR17060] (ab181593)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling Cyclin B1 using ab181593 at 1/500 dilution. A Goat Anti-Rabbit lgG H&L (HRP) (ab97051) was used as secondary at 1/500 dilution. Cytoplasm staining on epithelial cells of mouse colon is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

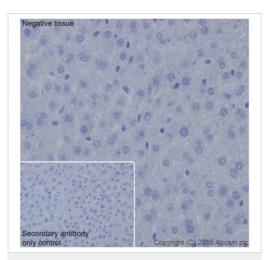


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cyclin B1 antibody
[EPR17060] (ab181593)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling Cyclin B1 using ab181593 at 1/500 dilution. A Goat Anti-Rabbit lgG H&L (HRP) (ab97051) was used as secondary at 1/500 dilution. Negative staining on Human brain tissue. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

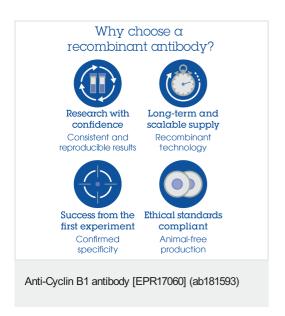


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cyclin B1 antibody
[EPR17060] (ab181593)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Cyclin B1 using ab181593 at 1/500 dilution. A Goat Anti-Rabbit lgG H&L (HRP) (ab97051) was used as secondary at 1/500 dilution. Negative staining on Mouse liver tissue. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



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