

## Product datasheet

# HRP Anti-Cyclin B1 antibody [Y106] ab193977

KO VALIDATED

Recombinant

RabMAb<sup>®</sup>

3 Images

### Overview

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<b>Product name</b>	HRP Anti-Cyclin B1 antibody [Y106]
<b>Description</b>	HRP Rabbit monoclonal [Y106] to Cyclin B1
<b>Host species</b>	Rabbit
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Epitope</b>	<b>ab32053</b> reacts with an epitope located in the C terminal region of Cyclin B1.
<b>Positive control</b>	Jurkat and HeLa cell lysate.
<b>General notes</b>	Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store in the Dark.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Y106
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab193977 in the following tested applications.

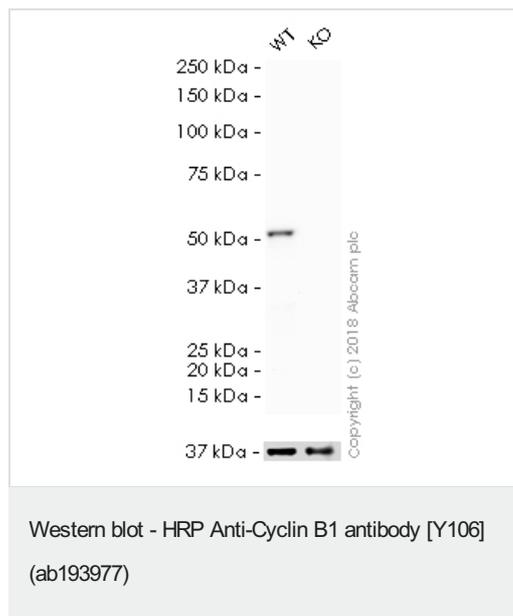
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Predicted molecular weight: 58 kDa.

## Target

<b>Function</b>	Essential for the control of the cell cycle at the G2/M (mitosis) transition.
<b>Sequence similarities</b>	Belongs to the cyclin family. Cyclin AB subfamily.
<b>Developmental stage</b>	Accumulates steadily during G2 and is abruptly destroyed at mitosis.
<b>Post-translational modifications</b>	Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its destruction. Not ubiquitinated during G2/M phases.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > centrosome.

## Images



**All lanes :** HRP Anti-Cyclin B1 antibody [Y106] (ab193977) at 1/5000 dilution

**Lane 1 :** Wild-type HAP1 whole cell lysate

**Lane 2 :** CCNB1 (Cyclin B1) knockout HAP1 whole cell lysate

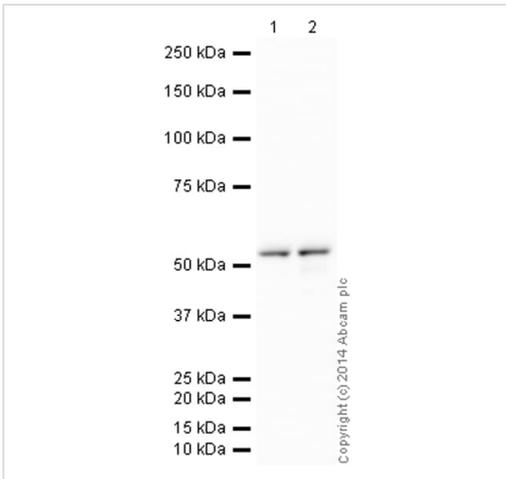
Lysates/proteins at 20 µg per lane.

**Predicted band size:** 58 kDa

**Observed band size:** 51 kDa

**Exposure time:** 1 minute

ab193977 was shown to specifically react with Cyclin B1 in wild-type HAP1 cells as signal was lost in CCNB1 (Cyclin B1) knockout cells. Wild-type and CCNB1 (Cyclin B1) knockout samples were subjected to SDS-PAGE. Ab193977 and **ab184095** (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/1000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.



Western blot - HRP Anti-Cyclin B1 antibody [Y106] (ab193977)

**All lanes :** HRP Anti-Cyclin B1 antibody [Y106] (ab193977) at 1/5000 dilution

**Lane 1 :** HeLa whole cell lysate ([ab150035](#))

**Lane 2 :** Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 58 kDa

**Observed band size:** 58 kDa

**Exposure time:** 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab193977 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

HRP Anti-Cyclin B1 antibody [Y106] (ab193977)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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