

Datasheet: MCA6321

**BATCH NUMBER 155791**

<b>Description:</b>	RABBIT ANTI CYCLIN B1
<b>Specificity:</b>	CYCLIN B1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM281
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/1000 - 1/2000
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to cyclin B1
<b>External Database</b>	<b>UniProt:</b>

Links

[P14635](#) [Related reagents](#)

**Entrez Gene:**

[891](#) CCNB1 [Related reagents](#)

**Synonyms**

CCNB

**Specificity**

**Rabbit anti Human cyclin B1 antibody** recognizes G2/mitotic-specific cyclin-B1, also known as CCNB1. Cyclins are protein kinases required for cell cycle progression, and different cyclins execute their functions at different stages of the cell cycle by binding to cyclin-dependent kinases (CDKs). Cyclin B1 forms a complex with CDK1 and regulates entry into mitosis at the G2/M transition, synchronizing critical events such as nuclear envelope breakdown and centrosome separation (Wang et al. 2014). Cyclin B1 and CDK1 are present in the mitochondria of mammalian cells, and their expression increases under conditions of DNA damage (Xie et al. 2019). Overexpression of cyclin B1 in solid tumors has been associated with worse prognosis of lung cancer and esophageal cancer, but better prognosis of colorectal cancer (Ye et al. 2016). Cyclin B1 intracts with BRCA1, which when mutated, carries a substantial risk of breast and ovarian cancer. Targeting Cyclin B1 has been suggested for BRCA1-associated breast cancer therapy (Choi et al. 2018).

**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

**Guarantee**

12 months from date of despatch

**Health And Safety Information**

Material Safety Datasheet documentation #10048 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6321>  
10048

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M376298:210127'

