

Datasheet: VMA00732

**BATCH NUMBER 100004124**

<b>Description:</b>	MOUSE ANTI CYCLIN B1
<b>Specificity:</b>	CYCLIN B1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	EF02/2D4-1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 µl

## 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
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-433 of human cyclin B1

**External Database  
Links**

**UniProt:**

[P14635](#)

[Related reagents](#)

**Entrez Gene:**

[891](#) CCNB1

[Related reagents](#)

<b>Synonyms</b>	CCNB
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human cyclin B1 antibody</b> recognizes the G2/mitotic-specific cyclin-B1, also known as CCNB1.</p> <p>Progression through the cell cycle is controlled by timely interaction between cyclins and cyclin-dependent kinases (CDKs), and cyclin B1 is required for cell division (Strauss et al. 2018). The complex between cyclin B1 and Cdk1 regulates entry into mitosis after G2 phase, synchronizing the breakdown of the nuclear envelope and separation of centrosomes (Wang et al. 2014). The protein p21 can prevent untimely entry into mitosis by inhibiting cyclin B1, holding the cyclin B1/Cdk1 complex in the nucleus and activating degradation of cyclin B1 in response to DNA damage (Jang et al. 2016). Cyclin B1 is overexpressed in numerous malignant tumors, and is significantly associated with poor overall survival of patients with solid tumors. This finding has suggested that cyclin B1 could be a prognostic marker for these cancer types (Ye et al. 2017).</p>
<b>Western Blotting</b>	Mouse anti cyclin B1 detects a band of approximately 56 kDa in K562 cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00732">https://www.bio-rad-antibodies.com/SDS/VMA00732</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [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://bio-rad-antibodies.com/datasheets)  
'M370409:200529'

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