

Datasheet: VMA00732

Description:	MOUSE ANTI CYCLIN B1
Specificity:	CYCLIN B1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF02/2D4-1
lsotype:	lgG2b
Quantity:	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 <u>www.bio-rad-antibodies.com/protocols</u> .								
		Yes	No	Not Determined	Suggested Dilution				
	Western Blotting	-			1/1000				
	criteria within Bio-Rad how we validate our P	' s ongoin r ecisionA ique this d	g antibod b range. \ loes not n	ly validation progran Where this product ha ecessarily exclude its	e defined performance nme. Click <u>here</u> to learn s not been tested for use in such procedures.				
Target Species	Human								
Product Form	Purified IgG - Liquid								
Preparation	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernat								
Buffer Solution	Phosphate buffered sali	ne							
Preservative Stabilisers	0.09% Sodium Azide								
Approx. Protein Concentrations	IgG concentration 1.0 m	g/ml							
Immunogen	E. coliderived recombi	nant prote	in of amin	o acids 1-433 of huma	an cyclin B1				

External Database Links	UniProt: P14635 Related reagents Entrez Gene: 891 CCNB1 Related reagents							
Synonyms	CCNB							
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line							
Specificity	Mouse anti Human cyclin B1 antibody recognizes the G2/mitotic-specific cyclin-B1, also known as CCNB1.							
	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 (<u>Strauss et al.</u> 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 (<u>Wang et al.</u> 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).							
Western Blotting	Mouse anti cyclin B1 detects a band of approximately 56 kDa in K562 cell lysates							
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles							
Guarantee	12 months from date of despatch							
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories							
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00732 Antibody (10040)							
Regulatory	For research purposes only							

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) <u>HRP</u> Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21	То			
America	Fax: +1 919 878 3751 Fax: +44 (0)1865 852 739			Fax: +49 (0) 89 8090 95 50	find a				
	Email: antibody_sales_us@bio	Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com					
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets									
'M394551:220215'									

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