

Cyclin B2 Monoclonal Mouse Antibody (X29.2)

kDa	R	NR	
250			
150		-	
100		-	
75			2ug loa
so		-	NR=No
37			reduce R=redu
25		-	R=reat
15			

Product Description

In eukaryotic cells, mitosis is initiated following the activation of a protein kinase known variously as maturation-promoting factor, M phase specific histone kinase or M-phase kinase. This protein kinase is composed of a catalytic subunit (Cdc2), a regulatory subunit (cyclin B) and a low molecular weight subunit (p13-Suc1). The Cdc/cyclin enzyme is subject to multiple levels of control, of which the regulation of the catalytic subunit by tyrosine phosphorylation is the best understood. Tyrosine phosphorylation inhibits the Cdc2/ cyclin B enzyme, and tyrosine dephosphorylation, occurring at the onset of mitosis, directly activates the pre-MPF complex. Evidence has established that B type cyclins not only act on M phase regulatory subunits of the Cdc2 protein kinase, but also activate the Cdc25A and Cdc25B endogenous tyrosine phosphatase, of which Cdc2 is the physiological substrate. The two B type cyclins, cyclin B1 and cyclin B2, have been shown to have distinct tissue distributions.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the <u>CF® Dye Brochure</u> for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email <u>order@biotium.com</u> to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 3059, Anti-Cyclin B2 (X29.2)

Call us : <u>800-304-5357</u> Email:

Email: techsupport@biotium.com

Product attributes

Product attributes		
Antibody number	#3059	
Antibody reactivity (target)	Cyclin B2	
Antibody type	Primary	
Host species	Mouse	
Clonality	Monoclonal	
Clone	X29.2	
Isotype	lgG1, kappa	
Molecular weight	51 kDa	
Synonyms	ccnb2; CycB2; Cyclin B2; G2 mitotic specific cyclin B2; HsT17299; MGC108931; MGC140694	
Human gene symbol	CCNB2	
Entrez gene ID	9133	
SwissProt	O95067	
Unigene	194698	
Immunogen	Recombinant full-length Xenopus laevis Cyclin B2 protein	
Antibody target cellular localization	Cytoplasmic	
Species reactivity	Human, Mouse, Rat, Xenopus laevis	
Expected antibody applications	IF (published for clone)	
Antibody application notes	ELISA: For coating, order antibody without BSA; Optimal dilution for a specific application should be determined., Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody	
Positive control	HeLa cells. Human cervical tissue (IHC).	
Positive control Shipping condition	HeLa cells. Human cervical tissue (IHC). Room temperature	
Shipping condition	Room temperature Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8	
Shipping condition Storage Conditions	Room temperature Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light	
Shipping condition Storage Conditions Regulatory status Antibody/conjugate	Room temperature Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% azide, Purified; 0.2 mg/mL in PBS/0.05% aside, Purified, BSA-free: 1 mg/mL in PBS/0.05% aside, Purified, BSA-free: 1 mg/mL in	

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNC74	CF®740	742/767	633-685	775/50	CF®740 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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References

Note: References for this clone sold by other suppliers may be listed for expected applications.

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