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## Cyclin B1 (V152) Mouse mAb (Alexa Fluor<sup>®</sup> 488 Conjugate)



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Applications: FC-FP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P14635	Entrez-Gene Id: 891	
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/Pe	ermeabilized)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), antibody. Protect from lig		ide and 2 mg/ml BS/	A. Store at 4°C. Do not aliquot the	
Specificity/Sensitivity		Cyclin B1 (V152) Mouse mAb detects endogenous levels of cyclin B1 independent of phosphorylation.				
Species predicted based on 100% se homology		Hamster				
Source / Purificat	ion	Cyclin B1 (V152) Monoclo corresponding to a seque under optimal conditions	ence from hamster cyclin	, ,	nals with a peptide as conjugated to Alexa Fluor <sup>®</sup> 488	
Description		Cell Signaling Technology Antibody conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in- house for direct Flow Cytometric analysis of human cells. The unconjugated antibody, #4135, reacts with human and mouse. CST expects that Cyclin B1 (V152) Mouse mAb (Alexa Fluor <sup>®</sup> 488 conjugate) will also recognize Cyclin B1 in these species.				
Background		through the cell cycle. Th cdc2/cdk1 at the G2/M tra the regulatory subunit, cy remains in the inactive st (CAK) (1,2) and dephosph phosphorylation sites (Se (CRS) domain and are the checkpoint, promoting no phosphorylate Ser126 an Ser133 and possibly at Se anaphase-promoting con	e entry of all eukaryotic c ansition. This activation is yclin B1, to cdc2/cdk1 to f ate until phosphorylatior orylation of cdc2/cdk1 at r116, 126, 128, 133, and bught to regulate the trar uclear accumulation and d Ser128, polo-like kinase er147 (6,10). At the end of nplex (APC), allowing for	tells into mitosis is re a multi-step proces form the mitosis-pro of cdc2/cdk1 at Thr Thr14/Tyr15 by cdc2 147) are located in th slocation of cyclin B initiation of mitosis ( e 1 (PLK1) phosphory f mitosis, cyclin B1 is cell cycle progression	s that begins with the binding of moting factor (MPF). MPF 161 by cdk activating kinase	
Background Refe	rences	1. Lorca, T. et al. (1992) <i>El</i> 2. Harper, J.W. and Elledgy 3. Norbury, C. et al. (1991 4. McGowan, C.H. and Ru 5. Atherton-Fessler, S. et a 6. Toyoshima-Morimoto, 7. Li, J. et al. (1997) <i>Proc N</i> 8. Takizawa, C.G. and Mor 9. Santos, S.D. et al. (2012 10. Jackman, M. et al. (2011) 11. Gong, D. and Ferrell, J 12. Mashal, R.D. et al. (19) 13. Kawamoto, H. et al. (10)	e, S.J. (1998) Genes Dev 1 ) EMBO J 10, 3321-9. ssell, P. (1993) EMBO J 12 al. (1994) Mol Biol Cell 5, 9 F. et al. (2001) Nature 410 Jatl Acad Sci U S A 94, 502 rgan, D.O. (2000) Curr Op 2) Cell 149, 1500-13. D3) Nat Cell Biol 5, 143-8. .E. (2010) Mol Biol Cell 21 96) Cancer Res 56, 4159-0 997) Am J Pathol 150, 15	, 75-85. 989-1001. ), 215-20. 2-7. <i>in Cell Biol</i> 12, 658-6 , 3149-61. 53.	5.	
Species Reactivity	1	Species reactivity is deter	mined by testing in at lea	ast one approved ap	plication (e.g., western blot).	
Applications Key		FC-FP: Flow Cytometry (Fi	ixed/Permeabilized)			

Cross-Reactivity Key	H: Human M: Mouse
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