Revision 8	
င္ရွိ Cyclin B1 (D5C10) XP [®] Rabbit mAb	
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Applications: Re V, W-S, IP, IF-IC, FC- FP	eactivity: H R	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #P14635	Entrez-Gene Id 891	
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:10 - 1:50 1:100 1:400 - 1:1600 1:200 - 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For a carrier free (BSA and azide free) version of this product see product #65173.						
Specificity/Sensitiv	ity	Cyclin B1 (D5C10) XP [®] Rabbit mAb recognizes endogenous levels of total cyclin B1 protein. This antibody also detects a 100 kDa protein of unknown origin in some cell lines.					
Source / Purificatio	n	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human cyclin B1 protein.					
Background		through the cell cycle cdc2/cdk1 at the G2/f the regulatory subun remains in the inactiv (CAK) (1,2) and depho phosphorylation sites (CRS) domain and are checkpoint, promotin phosphorylate Ser120 Ser133 and possibly a anaphase-promoting	. The entry of all eu M transition. This ac it, cyclin B1, to cdc2 e state until phospl sphorylation of cdc 5 (Ser116, 126, 128, thought to regulat g nuclear accumula 5 and Ser128, polo-l at Ser147 (6,10). At complex (APC), allo	ate specific cyclin-depen karyotic cells into mitosi tivation is a multi-step p /cdk1 to form the mitosi oorylation of cdc2/cdk1 a 2/cdk1 at Thr14/Tyr15 b 133, and 147) are located e the translocation of cy tion and initiation of mi ike kinase 1 (PLK1) phos he end of mitosis, cyclin wing for cell cycle progr breast, prostate, and no	s is regulated by ac rocess that begins is-promoting factor at Thr161 by cdk act y cdc25C (3-5). Five d in the cytoplasmic clin B1 to the nucle tosis (6-9). While MI phorylates cyclin B B1 is targeted for c ession (11). Researc	tivation of with the binding of (MPF). MPF tivating kinase cyclin B1 tretention signal us at the G2/M PF itself can 1 preferentially at degradation by the th studies have	
Background Refere	nces	 Lorca, T. et al. (1992) <i>EMBO J</i> 11, 2381-90. Harper, J.W. and Elledge, S.J. (1998) <i>Genes Dev</i> 12, 285-9. Norbury, C. et al. (1991) <i>EMBO J</i> 10, 3321-9. McGowan, C.H. and Russell, P. (1993) <i>EMBO J</i> 12, 75-85. Atherton-Fessler, S. et al. (1994) <i>Mol Biol Cell</i> 5, 989-1001. Toyoshima-Morimoto, F. et al. (2001) <i>Nature</i> 410, 215-20. Li, J. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 502-7. Takizawa, C.G. and Morgan, D.O. (2000) <i>Curr Opin Cell Biol</i> 12, 658-65. Santos, S.D. et al. (2012) <i>Cell</i> 149, 1500-13. Jackman, M. et al. (2003) <i>Nat Cell Biol S</i>, 143-8. Gong, D. and Ferrell, J.E. (2010) <i>Mol Biol Cell</i> 21, 3149-61. Mashal, R.D. et al. (1996) <i>Cancer Res</i> 56, 4159-63. Kawamoto, H. et al. (2009) <i>Cancer Res</i> 60, 4000-4. 					
Species Reactivity		Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffe	r	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					

Cross-Reactivity Key	H: Human R: Rat				
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