Revision 1		
Bub3 (D8G6) Rabbit mAb	Се	ell Signaling
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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit IgG	UniProt ID: #O43684	Entrez-Gene Id 9184	
Product Usage Information	9	Application Western Blotting			Dilution 1:1000		
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.					
Specificity/Sen	sitivity	Bub3 (D8G6) Rabbit mAb recognizes endogenous levels of total Bub3 protein.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues at the amino terminus of human Bub3 protein.					
Background		The Mitotic Checkpoint Complex (MCC), which contains Bub1, Bub1b, Bub3, Mad2, and Cdc20, contro chromosome segregation and monitors kinetochore-microtubule interactions (1). During mitosis, the MCC complex inhibits the ubiquitin ligase activity of the Anaphase Promoting Complex/Cyclosome (APC/C), thereby preventing cells with unaligned chromosomes from prematurely entering anaphase (2). Research studies have shown that Bub1b and Bub1 kinases are mutated in several types of huma malignancies including hematopoietic, colorectal, lung, and breast cancers (3). Biallelic mutations in Bub1b have been found in mosaic variegated aneuploidy syndrome and premature chromatid separation syndrome (4). Bub1b mouse germline knockouts are embryonic lethal with heterozygous animals displaying genetic instability, early aging phenotypes, and increased cancer susceptibility (5) Bub3 binds both Bub1 and Bub1b, facilitating their recruitment to kinetochores (6), and is required for functional microtubule-kinetochore interactions (7).				uring mitosis, the lex/Cyclosome ntering anaphase ral types of human elic mutations in chromatid ith heterozygous r susceptibility (5).	
Background Re	eferences	1. Fukagawa, T. (2008 2. Chen, R.H. (2007) / 3. Dai, W. et al. (2004) 4. Kops, G.J. et al. (2004) 5. Baker, D.J. et al. (20 6. Taylor, S.S. et al. (19 7. Logarinho, E. et al.	<i>Biomed Sci</i> 14, 475) <i>Cancer Res</i> 64, 440 05) <i>Nat Rev Cancer</i> 104) <i>Nat Genet</i> 36, 7 998) <i>J Cell Biol</i> 142, ²	9.)-5. 5, 773-85. 44-9. I-11.			
Species Reactiv	vity	Species reactivity is d	etermined by testir	ıg in at least one approv	ed application (e.g.,	, western blot).	
Western Blot B	Buffer	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 K	ey	W: Western Blotting					
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey					
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Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey				
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