Revision 1			
CENP-A (C51A7) Rabbit mAb	C C	Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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Applications: W	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #O35216	Entrez-Gene Id: 12615	
Product Usage Information		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/Sensi	tivity	CENP-A (C51A7) Rabbit mAb detects endogenous levels of total mouse CENP-A protein. This antibody does not cross-react with other histone proteins, including Histone H3.					
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of mouse CENP-A protein.					
Background		of the eukaryotic gend H4), is the primary bu histone modifications variant histones that of the chromatin-associa variant that replaces of between CENP-A and linker DNA between n The amino-terminal ta C, hSMC1, hZW10), pri Additional sequence of A to the centromere (! Aurora A-dependent p targeting of Aurora B	ome. The nucleosor ilding block of chro regulating chroma can directly or indir ated protein CSE4 (c canonical histone H canonical histone H cucleosomes and fa ail of CENP-A is also oper kinetochore a divergence in the hi 5). Many of the func shosphorylation of to the inner centro	a critical role in the regu ne, made up of four core matin. In addition to the tin structure, cells can al ectly modulate chromati apping-enzyme suppress in centromeric heteroo I3 occurs in the amino-te cilitates proper folding of required for recruitmen ssembly and chromoson stone fold domain is res tions of CENP-A are regu CENP-A on Ser7 during p mere in prometaphase, j pomosomes during mitos	e histone proteins (growing number of so exchange canon n structure (1). CEN sor 4-p), is an esser hromatin (2). The g erminal tail of the p of centromeric heter t of other centrome re segregation duri ponsible for correct ulated by phosphor orophase is requiree proper kinetochore	H2A, H2B, H3, and if post-translational ical histones with IP-A, also known as trial histone H3 reatest divergence rotein, which binds rochromatin (3). eric proteins (CENP- ng mitosis (4). t argeting of CENP- ylation (6,7). d for proper	
Background Refe	erences	1. Jin, J. et al. (2005) <i>Tr</i> 2. Ausió, J. (2006) <i>Brie</i> 3. Heit, R. et al. (2006) 4. Van Hooser, A.A. et 5. Black, B.E. et al. (20 6. Kunitoku, N. et al. (2 7. Zeitlin, S.G. et al. (20	f Funct Genomic Pr Biochem Cell Biol 8 al. (2001) J Cell Sci 1 04) Nature 430, 578 2003) Dev Cell 5, 85	oteomic 5, 228-43. 14, 605-18. 14, 3529-42. -82. 3-64.			
Species Reactivit	t y	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot But	ffer	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					
Cross-Reactivity	Key	M: Mouse					
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