CENP-T Antibody				
	Orders: 877-616-CELL (2355) orders@cellsignal.com			
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[£] 12494	Web: info@cellsignal.com cellsignal.com			
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For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit	UniProt ID: #Q96BT3	Entrez-Gene Id: 80152	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM soo 20°C. Do not aliquot tl), 150 mM NaCl, 100 µg.	/ml BSA and 50% gl	ycerol. Store at –	
Specificity/Sensitivity		CENP-T Antibody recognizes endogenous levels of total CENP-T protein.					
Source / Purific	cation		boxy terminus of hu	munizing animals with a man CENP-T protein. Ar			
Background		Modulation of chromatin structure plays a critical role in the regulation of transcription and replication of the eukaryotic genome. The nucleosome, made up of four core histone proteins (H2A, H2B, H3, and H4), is the primary building block of chromatin. In addition to the growing number of post-translational histone modifications regulating chromatin structure, cells can also exchange canonical histones with variant histones that can directly or indirectly modulate chromatin structure (1). CENP-A, also known as the chromatin-associated protein CSE4 (capping-enzyme suppressor 4-p), is an essential histone H3 variant that replaces canonical histone H3 in centromeric heterochromatin (2). The greatest divergence between CENP-A and canonical histone H3 occurs in the amino-terminal tail of the protein, which binds linker DNA between nucleosomes and facilitates proper folding of centromeric heterochromatin (3). The amino-terminal tail of CENP-A is also required for recruitment of other centromeric proteins (CENP- C, hSMC1, hZW10), proper kinetochore assembly, and chromosome segregation during mitosis (4). CENP-A is regarded as the epigenetic mark of the centromere that persists through cell generations (5). Although its presence is necessary, it is not sufficient for formation of functional kinetochores (6). CENP-T, in complex with CENP-W, has recently been shown to form a histone fold, a structure that is capable of association with DNA, and target DNA to the kinetochore (7). Kinetochore attachment is mediated by a long flexible N-terminal region that has been shown to interact with outer proteins of					
		the kinetochore comp interact with the CENF potentially functional	lex (reviewed in 8). P-S-X dimer, to form similarity to canonic	Moreover, the CENP-T-W a heterotetrameric com cal histones (8). Since CE peen suggested to be a	/ complex has also b pplex that has struct ENP-S-X are conserv	been shown to cural and ed kinetochore	
Background Re	eferences	1. Jin, J. et al. (2005) <i>Tr</i> 2. Ausió, J. (2006) <i>Bries</i> 3. Heit, R. et al. (2006) 4. Van Hooser, A.A. et 5. Jansen, L.E. et al. (20 6. Gascoigne, K.E. et a 7. Hori, T. et al. (2008) 8. Nishino, T. et al. (20	f Funct Genomic Pro Biochem Cell Biol 8 al. (2001) J Cell Sci 1 007) J Cell Biol 176, I. (2011) Cell 145, 47 Cell 135, 1039-52.	oteomic 5, 228-43. 4, 605-18. 14, 3529-42. 795-805. 10-22.			
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20	,	membrane with diluted haking, overnight.	primary antibody ir	ר 5% w/v BSA, 1X	
Applications Ke	ey	W: Western Blotting					
Cross-Reactivit	у Кеу	H: Human M: Mouse I	Mk: Monkey				

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