e at -20C	CENP-F (D6X4L) Rabbit mAb		Cell Signaling		
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Applications: WB, IF-IC, FC-FP	Reactivity: H	: Sensitivity: Endogenous	MW (kDa): 450	Source/Isotype: Rabbit IgG	UniProt ID: #P49454	Entrez-Gene Id: 1063		
Product Usage Information		Application Western Blotting Immunofluorescence (Ir Flow Cytometry (Fixed/	2	nistry)		Dilution 1:1000 1:800 1:50		
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 / Sensitivity		CENP-F (D6X4L) Rabbit mAb recognizes endogenous levels of total CENP-F protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1794 of human CENP-F protein.						
Background		CENP-F (mitosin), is a kinetochore-associated protein whose expression and localization to chromatin is regulated in a cell cycle-dependent manner, with its highest expression in G2/M phases (1, 2). CENP-F is required for appropriate localization of other kinetocore-associated proteins, including CENP-E. CENP-F regulates kinetocore function and maintenance of the mitotic spindle checkpoint. Farnesylation of CENP-F is required for its localization and function (3). CENP-F also interacts with the mitochondrial protein, miro, to direct the distribution of mitochondria to daughter cells as they exit mitosis (4). Researchers have shown that CENP-F drives prostate tumor growth synergistically with FOXM1 in human and mouse (5), and that the gene for CENP-F is among those frequently amplified in hepatocellular, head and neck, and esophageal carcinomas (6-8). CENP-F expression has also been shown in research studies to be associated with poor prognosis in breast cancer (9).						
Background References		1. Rattner, J.B. et al. (199 2. Liao, H. et al. (1995) J 3. Ma, L. et al. (2006) J E 4. Kanfer, G. et al. (2015 5. Aytes, A. et al. (2014) 6. Kim, H.E. et al. (2012) 7. Pimkhaokham, A. et a 8. de la Guardia, C. et al 9. O'Brien, S.L. et al. (20	Cell Biol 130, 5 Biomed Sci 13, 2 Nat Commun (Cancer Cell 25, PLoS One 7, e (2000) Jpn J C . (2001) Head N	07-18. 205-13. 6, 8015. 638-51. 43223. <i>Cancer Res</i> 91, 1126-33 <i>leck</i> 23, 104-12.				
Species Reactivity	y S	Species reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity K	X	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 						

Trademarks and Patents CENP-F (D6X4L) Rabbit mAb (#58982) Datasheet Without Images Cell Signaling Technology

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