

#49426 Store at -20°C

**CENP-I (D4D5K) Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	80	Rabbit IgG	#Q92674	2491

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	CENP-I (D4D5K) Rabbit mAb recognizes endogenous levels of total CENP-I protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn41 of human CENP-I protein.	
<b>Background</b>	<p>Kinetochore are mitotic structures that form on centromeres and attach to mitotic spindle microtubules. Kinetochore attachment to microtubules regulates chromosome segregation and progression through mitosis. Unattached kinetochores signal to the spindle assembly checkpoint (SAC) machinery, arresting cells in mitosis (1).</p> <p>CENP-I is a centromere protein associated with the inner kinetochore, and required for progression through mitosis and the appropriate localization of other kinetochore-associated and checkpoint proteins, including CENP-C, the RZZ complex, MAD1 and MAD2 (2-4).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Foley, E.A. and Kapoor, T.M. (2013) <i>Nat Rev Mol Cell Biol</i> 14, 25-37.</li> <li>2. Nishihashi, A. et al. (2002) <i>Dev Cell</i> 2, 463-76.</li> <li>3. Matson, D.R. and Stukenberg, P.T. (2014) <i>J Cell Biol</i> 205, 541-54.</li> <li>4. Liu, S.T. et al. (2003) <i>Nat Cell Biol</i> 5, 341-5.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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