| e at -20C | CENP-A (C51A7) Rabbit mAb | | Cell Signaling TECHNOLOGY® | | |
|-----------|---------------------------|-----------------------------|--|--|--|
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| Ŧ | | 3 Trask Lane Danvers Ma | ssachusetts 01923 USA | | |

| Applications: WB | Reactivity: M | Sensitivity: Endogenous | MW (kDa): 17 | Source/Isotype: Rabbit IgG | UniProt ID: #O35216 | Entrez-Gene Id: 12615 | |
|------------------------------|---|--|--|--|---|--|--|
| Product Usage Information | | pplication /estern 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 / Sensitivity | | 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 / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of mouse CENP-A protein. | | | | | |
| Background | eu the mo his chi tha CE be ter hZ se ce de bt | karyotic genome. The e primary building bloc odifications regulating stones that can directly romatin-associated pr at replaces canonical h ENP-A and canonical h tween nucleosomes a minal tail of CENP-A i W10), proper kinetoch quence divergence in ntromere (5). Many of pendent phosphorylat | nucleosome, ma k of chromatin. I chromatin struct or indirectly mo otein CSE4 (cap histone H3 in cer histone H3 occur nd facilitates pro s also required f nore assembly at the histone fold the functions of ion of CENP-A o e in prometapha | a critical role in the regu ade up of four core histo n addition to the growin ure, cells can also exch odulate chromatin struct ping-enzyme suppresso ntromeric heterochroma s in the amino-terminal oper folding of centrome or recruitment of other of nd chromosome segreg domain is responsible for CENP-A are regulated i in Ser7 during prophase se, proper kinetochore/i s (6). | one proteins (H2A, H2E g number of post-trans ange canonical histone ure (1). CENP-A, also or 4-p), is an essential tin (2). The greatest div tail of the protein, whice ric heterochromatin (3) centromeric proteins (C ation during mitosis (4) or correct targeting of C by phosphorylation (6, e is required for proper | 3, H3, and H4), is slational histone es with variant known as the histone H3 variant vergence between ch binds linker DNA). The amino- CENP-C, hSMC1,). Additional CENP-A to the 7). Aurora A- targeting of Aurora | |
| Background Refere | 2. / 3. 4. [^] 5. 6. | Jin, J. et al. (2005) <i>Tre</i> Ausió, J. (2006) <i>Brief</i> Heit, R. et al. (2006) <i>E</i> Van Hooser, A.A. et al Black, B.E. et al. (200 Kunitoku, N. et al. (200 Zeitlin, S.G. et al. (200 | Funct Genomic I Biochem Cell Bio . (2001) J Cell S 4) Nature 430, 5 03) Dev Cell 5, 8 | Proteomic 5, 228-43. / 84, 605-18. ci 114, 3529-42. 78-82. !53-64. | | | |
| Species Reactivity | Spe | ecies reactivity is deter | rmined by testing | g in at least one approve | ed application (e.g., we | estern blot). | |
| Western Blot Buffer | | | n blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, with gentle shaking, overnight. | | | | |
| Applications Key | WE | 3: Western Blotting | | | | | |
| Cross-Reactivity Key | | 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 | | | | | |
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