3194 Store at -20C

Bub3 (D8G6) Rabbit mAb



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| Applications: WB | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 40 | Source/Isotype: Rabbit IgG | UniProt ID: #O43684 | Entrez-Gene Id: 9184 |
|--|---|--|------------------------|-------------------------------|-------------------------------|-------------------------|
| Product Usage Information | Application Western Blotting | | Dilution 1:1000 | | | |
| Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 0.02% sodium azide. Store at –20°C. Do not aliquot the anti | | | | ,, | , , | erol and less than |
| Specificity / Sensitivity | | Bub3 (D8G6) Rabbit mAb recognizes endogenous levels of total Bub3 protein. | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues at the amino terminus of human Bub3 protein. | | | | |
| Background | chro com ther stuc inclu four Bub insta Bub | The Mitotic Checkpoint Complex (MCC), which contains Bub1, Bub1b, Bub3, Mad2, and Cdc20, controls chromosome segregation and monitors kinetochore-microtubule interactions (1). During mitosis, the MCC complex inhibits the ubiquitin ligase activity of the Anaphase Promoting Complex/Cyclosome (APC/C), thereby preventing cells with unaligned chromosomes from prematurely entering anaphase (2). Research studies have shown that Bub1b and Bub1 kinases are mutated in several types of human malignancies including hematopoietic, colorectal, lung, and breast cancers (3). Biallelic mutations in Bub1b have been found in mosaic variegated aneuploidy syndrome and premature chromatid separation syndrome (4). Bub1b mouse germline knockouts are embryonic lethal with heterozygous animals displaying genetic instability, early aging phenotypes, and increased cancer susceptibility (5). Bub3 binds both Bub1 and Bub1b, facilitating their recruitment to kinetochores (6), and is required for functional microtubule-kinetochore interactions (7). | | | | |
| 1. Fukagawa, T. (2008) Front Biosci 13, 2705-13. 2. Chen, R.H. (2007) J Biomed Sci 14, 475-9. 3. Dai, W. et al. (2004) Cancer Res 64, 440-5. 4. Kops, G.J. et al. (2005) Nat Rev Cancer 5, 773-85. 5. Baker, D.J. et al. (2004) Nat Genet 36, 744-9. 6. Taylor, S.S. et al. (1998) J Cell Biol 142, 1-11. 7. Logarinho, E. et al. (2008) Mol Biol Cell 19, 1798-813. | | | | | | |

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

WB: 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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