



BUB1 Polyclonal Antibody

E91929

- Catalog Number:** E91929
- Amount:** 100ul
- Background:** 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).
- Species:** Rabbit
- Isotype:** IgG
- Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- Synonyms:** BUB1A; BUB1L; hBUB1;
- Immunogen:** Recombinant protein of human BUB1
- Purification:** Affinity purification
- Reactivity:** H M R
- Applications:** WB IHC
- Molecular Weight:** 122kDa
- Swiss-Prot No.:** O43683
- Gene ID:** 699
- References:** 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.

For Research Use Only

