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Bub1b Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #O60566	Entrez-Gene Id: 701
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Stor 20°C. Do not aliquot the antibody.						ycerol. Store at –
Specificity/Sensitivity		Bub1b Antibody detects endogenous levels of total Bub1b protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence surrounding Lys370 of human Bub1b. Antibodies are purified by Protein A and peptide affinity chromatography.				
The Mitotic Checkpoint Complex (MCC), which contains Bub1, Bub1b, Bub3, Mad2, and Cdc20, control 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 anaphas (2). Research studies have shown that Bub1b and Bub1 kinases are mutated in several types of hum 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 heterozygou animals displaying genetic instability, early aging phenotypes, and increased cancer susceptibility (9). Bub3 binds both Bub1 and Bub1b, facilitating their recruitment to kinetochores (6), and is required functional microtubule-kinetochore interactions (7).						uring mitosis, the lex/Cyclosome anaphase ral types of human elic mutations in chromatid th heterozygous susceptibility (5).
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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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