Bub1b Antibody

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

Applications: Reactive WB, IP H	vity: Sensitivity: Endogenous	MW (kDa): 130	Source: 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 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
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.					
Background Background References	 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) <i>Front Biosci</i> 13, 2705-13. 2. Chen, R.H. (2007) <i>J Biomed Sci</i> 14, 475-9. 3. Dai, W. et al. (2004) <i>Cancer Res</i> 64, 440-5. 4. Kops, G.J. et al. (2005) <i>Nat Rev Cancer</i> 5, 773-85. 5. Baker, D.J. et al. (2004) <i>Nat Genet</i> 36, 744-9. 6. Taylor, S.S. et al. (1998) <i>J Cell Biol</i> 142, 1-11. 7. Logarinho, E. et al. (2008) <i>Mol Biol Cell</i> 19, 1798-813. 					
Species Reactivity	Species reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern 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 IF	WB: Western Blotting IP: Immunoprecipitation				
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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