Bub3 Antibody

049 Store at -20C

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

Applications: WB	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 40	Source: Rabbit	UniProt ID: #O43684	Entrez-Gene Id: 9184	
Product Usage Information		blication stern Blotting			Dilution 1:1000		
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 / Sens	itivity Bub3	Bub3 Antibody detects endogenous levels of total Bub3 protein.					
Source / Purificat		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminal residues of human Bub3.					
Background	chroi comj there studi inclu foun Bub1 insta Bub1	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).					
Background Refe	2. Cł 3. Da 4. Ko 5. Ba 6. Ta	 Fukagawa, T. (2008) Front Biosci 13, 2705-13. Chen, R.H. (2007) J Biomed Sci 14, 475-9. Dai, W. et al. (2004) Cancer Res 64, 440-5. Kops, G.J. et al. (2005) Nat Rev Cancer 5, 773-85. Baker, D.J. et al. (2004) Nat Genet 36, 744-9. Taylor, S.S. et al. (1998) J Cell Biol 142, 1-11. Logarinho, E. et al. (2008) Mol Biol Cell 19, 1798-813. 					
Species Reactivit	y Speci	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buf		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB:	WB: Western Blotting					
Cross-Reactivity	X: Xe	 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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