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KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody

Rabbit polyclonal antibody
Catalog # AGI1777

Product Information

Application	WB
Primary Accession	O60566
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	119545
Gene Name	BUB1B
Aliases	BUB1B; BUB1 Mitotic Checkpoint Serine/Threonine Kinase B; BUBR1; MAD3L; SSK1; Bub1A; Mitotic Checkpoint Serine/Threonine-Protein Kinase BUB1 Beta; MAD3/BUB1-Related Protein Kinase; Mitotic Checkpoint Kinase MAD3L; HBUBR1; Budding Uninhibited By Benzimidazoles 1 (Yeast Homolog), Beta; Budding Uninhibited By Benzimidazoles 1 Homolog Beta (Yeast); Budding Uninhibited By Benzimidazoles 1 Homolog Beta; BUB1B, Mitotic Checkpoint Serine/Threonine Kinase; Protein SSK1; EC 2.7.11.1; BUB1beta; MVA1
Immunogen	A synthesized peptide derived from human BUB1B

Additional Information

Gene ID	701
Other Names	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta, 2.7.11.1, MAD3/BUB1-related protein kinase, hBUBR1, Mitotic checkpoint kinase MAD3L, Protein SSK1, BUB1B, BUBR1, MAD3L, SSK1

Protein Information

Name	BUB1B (HGNC:1149)
Function	Kinase which is a component of the mitotic checkpoint complex (MCC), which inhibits APC/C and delays chromosome segregation until all chromosomes are properly attached to the mitotic spindle (PubMed:27509861, PubMed:31201382). The MCC, which consists of CDC20, MAD2L1/MAD2, BUB1B/BUBR1 and BUB3, is a key player of the spindle assembly checkpoint (PubMed:11702782, PubMed:14706340, PubMed:15020684, PubMed:27509861, PubMed:31201382). The MCC-bound APC/C complex is inactive and this delays the metaphase/anaphase transition (PubMed:10477750, PubMed:27509861). When the spindle assembly checkpoint is silenced, the MCC-APC/C complex recruits the E2 enzyme UBCH10 and triggers the auto-ubiquitination of CDC20 in the MCC, thereby reactivating APC/C for transition into anaphase (PubMed:27509861). MCC also monitors kinetochore activities that depend on the kinetochore motor CENPE (PubMed:15020684). Required for kinetochore localization of CENPE

	(PubMed:15020684). Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification (PubMed:19503101). May play a role for tumor suppression (By similarity).
Cellular Location	Cytoplasm. Nucleus. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Cytoplasmic in interphase cells. Associates with the kinetochores in early prophase. Kinetochore localization requires BUB1, PLK1 and KNL1.
Tissue Location	Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index

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