

**KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody**  
**Rabbit polyclonal antibody**  
**Catalog # AGI1777****Specification****KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O60566</a>
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 120 kDa , o bserved , 130 kDa
Gene Name	KDa
Aliases	BUB1B
	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

**KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody - Additional Information**

Gene ID	701
<b>Other Names</b>	
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	

**KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody - Protein Information****Name** BUB1B**Synonyms** BUBR1, MAD3L, SSK1**Function**

Essential component of the mitotic checkpoint. Required for normal mitosis progression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic

spindle. One of its checkpoint functions is to inhibit the activity of the anaphase- promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. May play a role for tumor suppression.

#### 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

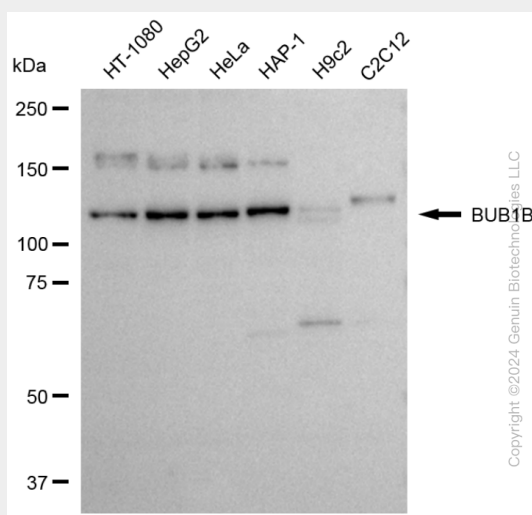
Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index

### KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody - Protocols

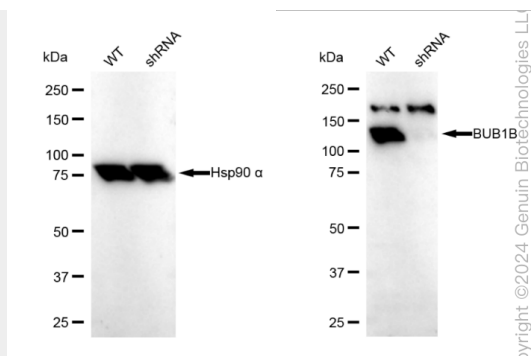
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-BUB1B Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-BUB1B antibody (Cat#62829). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BUB1B antibody (Cat#62829, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-BUB1B kinase antibody (Cat#62829). BUB1B kinase expression in wild type (WT) and BUB1B shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-BUB1B kinase antibody (Cat#62829, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).