10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-BubR1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2337

Specification

KD-Validated Anti-BubR1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O60566
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 120 kDa ; Observed, 120 kDa KDa**
Gene Name	**BUB1B**
Aliases	**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 BubR1**

KD-Validated Anti-BubR1 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-BubR1 Rabbit Monoclonal 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

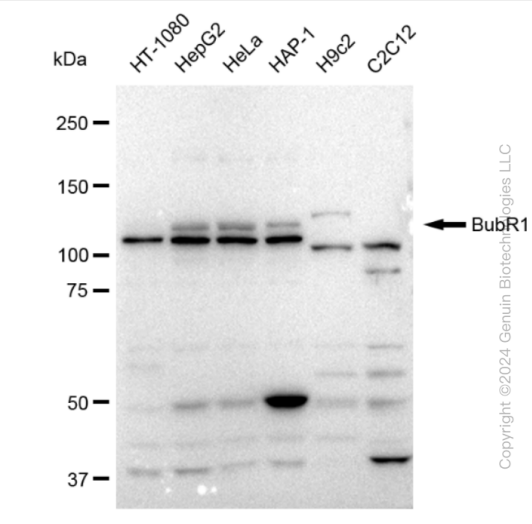
Tissue Location
Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index

KD-Validated Anti-BubR1 Rabbit Monoclonal Antibody - Protocols

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

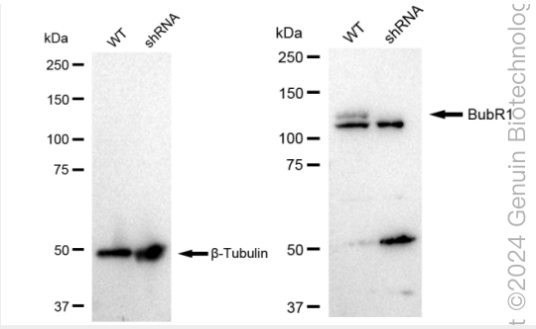
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-BubR1 Rabbit Monoclonal Antibody - Images

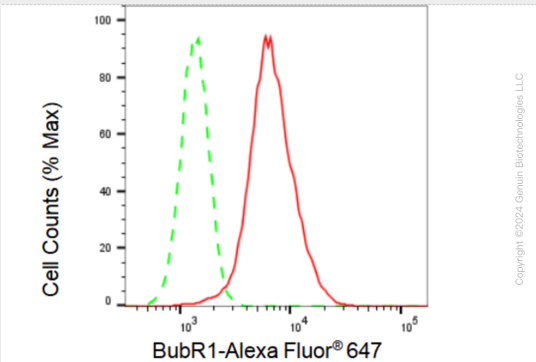


Western blotting analysis using anti-BubR1 antibody (Cat#AGI2337). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BCL11 transcription factor B antibody (Cat#AGI2337, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

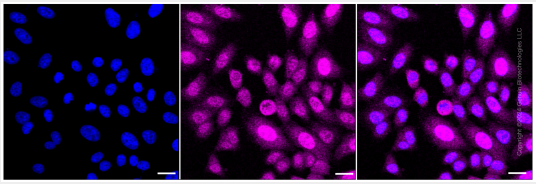
10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blotting analysis using anti-BubR1 antibody (Cat#AGI2337). BubR1 expression in wild type (WT) and BubR1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-BubR1 antibody (Cat#AGI2337, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of BubR1 expression in HepG2 cells using BubR1 antibody (Cat#AGI2337, 1:2,000). Green, isotype control; red, BubR1.



Immunocytochemical staining of HepG2 cells with BubR1 antibody (Cat#AGI2337, 1:1,000). Nuclei were stained blue with DAPI; BubR1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.