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KD-Validated Anti-BUB3 Mitotic Checkpoint Protein Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1359

Specification

KD-Validated Anti-BUB3 Mitotic Checkpoint Protein Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O43684
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 37 kDa; observed, 40 kDa KDa**
Gene Name	**BUB3**
Aliases	**BUB3; BUB3 Mitotic Checkpoint Protein; BUB3L; Mitotic Checkpoint Protein BUB3; BUB3 (Budding Uninhibited By Benzimidazoles 3, Yeast) Homolog; Budding Uninhibited By Benzimidazoles 3 Homolog (Yeast); BUB3 Budding Uninhibited By Benzimidazoles 3 Homolog; Budding Uninhibited By Benzimidazoles 3 Homolog; Testicular Tissue Protein Li 27; Budding Uninhibited By Benomyl; Mitotic Checkpoint Component; HBUB3**
Immunogen	**A synthesized peptide derived from human Bub3**

KD-Validated Anti-BUB3 Mitotic Checkpoint Protein Rabbit Monoclonal Antibody - Additional Information

Gene ID	**9184**

Other Names
Mitotic checkpoint protein BUB3, BUB3

KD-Validated Anti-BUB3 Mitotic Checkpoint Protein Rabbit Monoclonal Antibody - Protein Information

Name BUB3

Function
Has a dual function in spindle-assembly checkpoint signaling and in promoting the establishment of correct kinetochore-microtubule (K-MT) attachments. Promotes the formation of stable end-on bipolar attachments. Necessary for kinetochore localization of BUB1. Regulates chromosome segregation during oocyte meiosis. The BUB1/BUB3 complex plays a role in the inhibition of anaphase-promoting complex or cyclosome (APC/C) when spindle-assembly checkpoint is activated and inhibits the ubiquitin ligase activity of APC/C by phosphorylating its activator CDC20. This complex can also phosphorylate MAD1L1.

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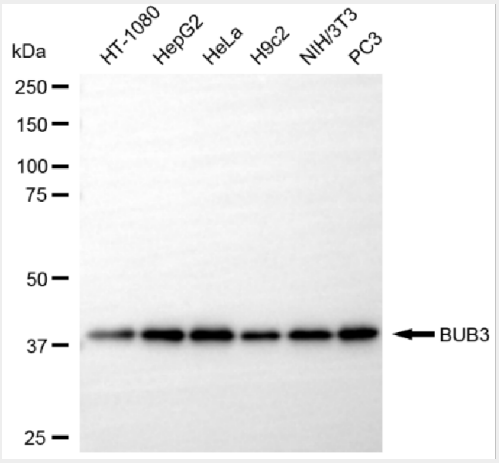
Cellular Location
Nucleus. Chromosome, centromere, kinetochore. Note=Starts to localize at kinetochores in prometaphase I (Pro-MI) stage and maintains the localization until the metaphase I- anaphase I (MI-AI) transition.

KD-Validated Anti-BUB3 Mitotic Checkpoint Protein Rabbit Monoclonal Antibody - Protocols

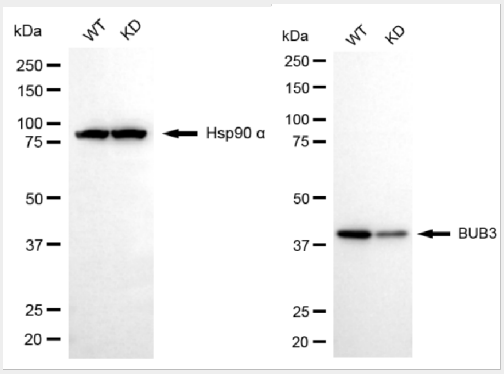
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-BUB3 Mitotic Checkpoint Protein Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-BUB3 antibody (Cat#AGI1359). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-BUB3 antibody (Cat#AGI1359, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-BUB3 antibody (Cat#AGI1359). BUB3 expression in wild type

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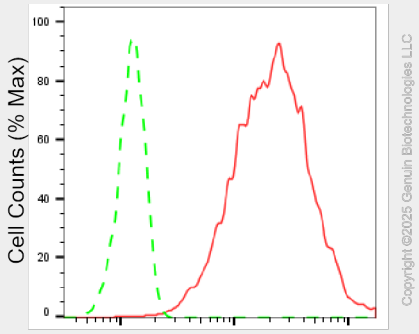
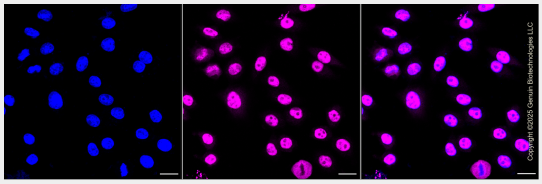
(WT) and BUB3 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-BUB3 antibody (Cat#AGI1359, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of BUB3 expression in HepG2 cells using anti-BUB3 antibody (Cat#AGI1359, 1:2,000). Green, isotype control; red, BUB3.



Immunocytochemical staining of HepG2 cells with anti-BUB3 antibody (Cat#AGI1359, 1:1,000). Nuclei were stained blue with DAPI; BUB3 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.