

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

Primary Accession Reactivity Clonality sotype Calculated MW Gene Name Aliases	WB, FC, ICC <u>O43684</u> Rat, Human, Mouse Monoclonal Rabbit IgG Predicted, 37 kDa; observed, 40 kDa KDa BUB3 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
	Budding Uninhibited By Benzimidazoles 3 Homolog; Testicular Tissue Protein Li 27; Budding Uninhibited By Benomyl; Mitotic
Immunogen	A synthesized peptide derived from human Bub3

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

Gene ID Other Names Mitotic checkpoint protein BUB3, BUB3 9184

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.



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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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.

kDa 250 — 150 —	x 12	kDa 250 — 150 —	n to	° LLC
100 — 75 —		100 - Hsp90 α 75 -		otechnologie
50 —		50 —		nuin Bi
37 —		37 —	BUB3	©2025 Ge
25 — 20 —		25 — 20 —		Copyright

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



(WT) and BUB3 knockdown (KD) HSHC cells with 20 μ g 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.



BUB3-Alexa Fluor® 647

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 μ m.