

Product Name: KD-Validated BUB1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01374**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 122.4kDa

Antigen Information

Gene Name	BUB1
Alternative Names	BUB1; BUB1 Mitotic Checkpoint Serine/Threonine Kinase; HBUB1; BUB1A; BUB1L; Mitotic Checkpoint Serine/Threonine-Protein Kinase BUB1; Budding Uninhibited By Benzimidazoles 1 (Yeast Homolog); Budding Uninhibited By Benzimidazoles 1 Homolog (Yeast); BUB1 Budding Uninhibited By Benzimidazoles 1 Homolog; Budding Uninhibited By Benzimidazoles 1 Homolog; Putative Serine/Threonine-Protein Kinase; Mitotic Spindle Checkpoint Kinase; EC 2.7.11.1; MCPH30
Gene ID	699.0
SwissProt ID	O43683
Immunogen	A synthesized peptide derived from human Bub1

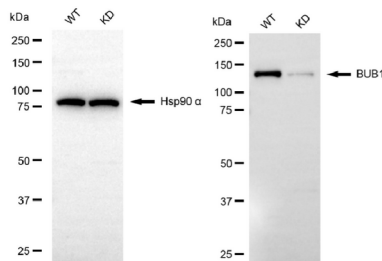
Background

This gene encodes a serine/threonine-protein kinase that play a central role in mitosis. The encoded protein functions in part by phosphorylating members of the mitotic checkpoint complex and activating the spindle checkpoint. This protein also plays a role in inhibiting the activation of the anaphase promoting complex/cyclosome. This protein may also function in the DNA damage response. Mutations in this gene have been associated with aneuploidy and several forms of cancer. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

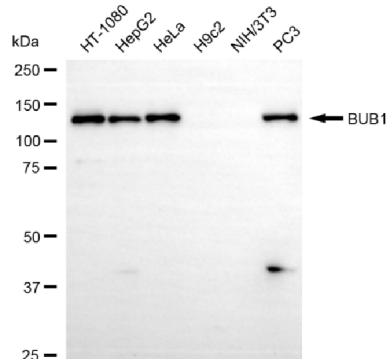
Research Area

Cell Biology,Cancer

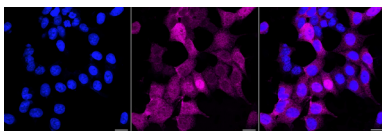
Image Data



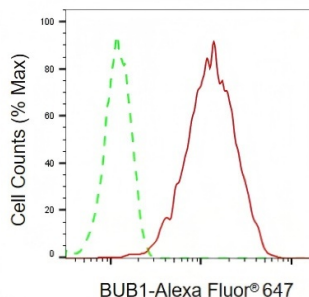
Western blotting analysis using BUB1 antibody (KVA01374). BUB1 expression in wild type (WT) and BUB1 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with BUB1 antibody (KVA01374, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using BUB1 antibody (KVA01374). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with BUB1 antibody (KVA01374, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with BUB1 antibody (KVA01374, 1:1,000). Nuclei were stained blue with DAPI; BUB1 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.



Flow cytometric analysis of BUB1 expression in HAP-1 cells using BUB1 antibody (KVA01374, 1:2,000). Green, isotype control; red, BUB1.