Product datasheet

Anti-BubR1/BUB1B Antibody (Clone#5I7)

Catalog Number: *M01564-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-BubR1/BUB1B Antibody (Clone#5I7)
Gene Name	BUB1B
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human
Tested Application	WB, IHC, FCM, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human BubR1/BUB1B recombinant protein (Position: K26-E448). Human BUB1B shares 80.2% and 83.3% amino acid (aa) sequence identity with mouse and rat BUB1B, respectively.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	130 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Mitotic checkpoint serine/threonine-protein kinase BUB1 beta is an enzyme that in humans is encoded by the BUB1B gene. This gene encodes a kinase involved in spindle checkpoint function. The protein has been localized to the kinetochore and plays a role in the inhibition of the anaphase-promoting complex/cyclosome (APC/C), delaying the onset of anaphase and ensuring proper chromosome segregation. Impaired spindle checkpoint function has been found

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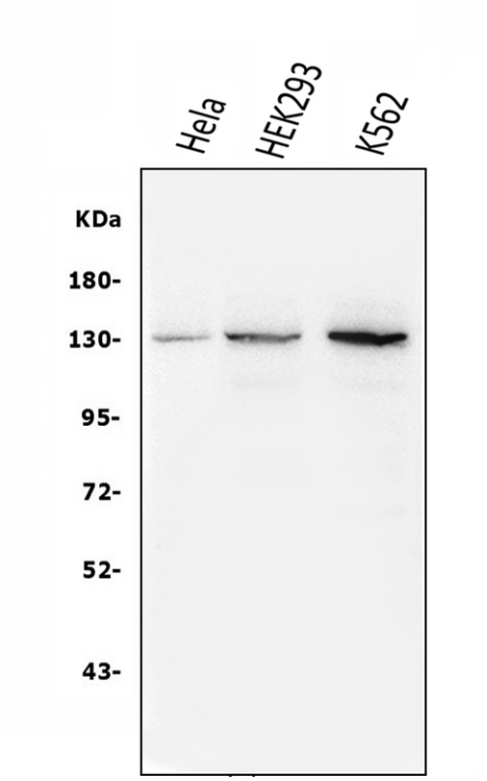
in many forms of cancer.

Selected Validation Data



Western blot analysis of BubR1/BUB1B using anti-BubR1/BUB1B antibody (M01564-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human HEK293 whole cell lysates,
Lane 3: human K562 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-BubR1/BUB1B antigen affinity purified monoclonal antibody (M01564-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for BubR1/BUB1B at approximately 130 kDa. The expected band size for BubR1/BUB1B is at 120 kDa.

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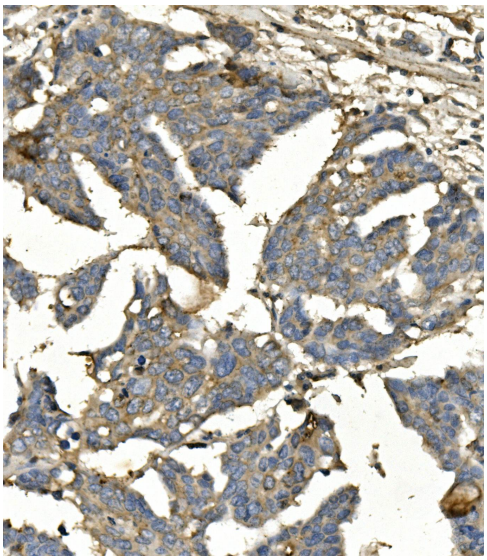
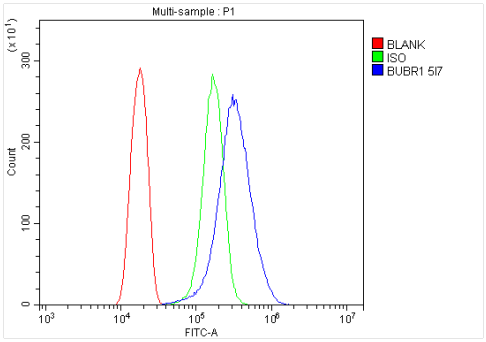


IHC analysis of BubR1/BUB1B using anti-BubR1/BUB1B antibody (M01564-2).
BubR1/BUB1B was detected in a paraffin-embedded section of human Ovarian cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-BubR1/BUB1B Antibody (M01564-2) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of Hela cells using anti-BubR1/BUB1B antibody (M01564-2).
Overlay histogram showing Hela cells stained with M01564-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-BubR1/BUB1B Antibody (M01564-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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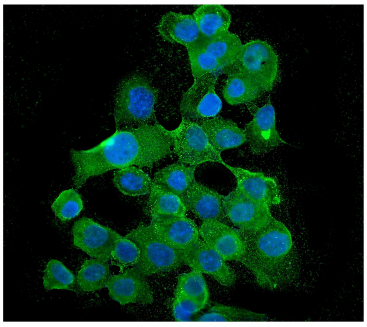

ICC/IF analysis of BubR1/BUB1B using anti-BubR1/BUB1B antibody (M01564-2).
BubR1/BUB1B was detected in an immunocytochemical section of A431 cells. The section was incubated with mouse anti-BubR1/BUB1B Antibody (M01564-2) at a dilution of 1:100. Fluoro488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).