

Basic Information

Product Name	Anti-BubR1/BUB1B Antibody	
Gene Name	BUB1B	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
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	Immunogen affinity 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
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(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°C as supplied.

Background Information

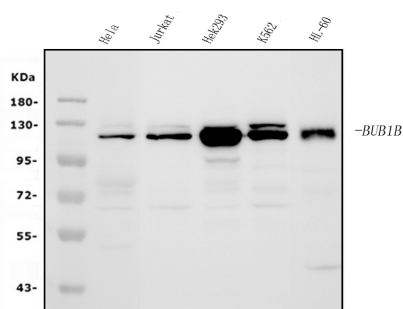
Mitotic checkpoint serine/threonine-protein kinase BUB1 beta is an enzyme that in humans is encoded by the BUB1B gene. This gene encodes a kinase involved in spindle checkpoint function. The protein has been localized to the kinetochore and plays a role in the inhibition of the anaphase-promoting complex/cyclosome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

in many forms of cancer.

Reference

Anti-BubR1/BUB1B Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of BubR1/BUB1B using anti-BubR1/BUB1B antibody (A01564-1). 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 Jurkat whole cell lysates,

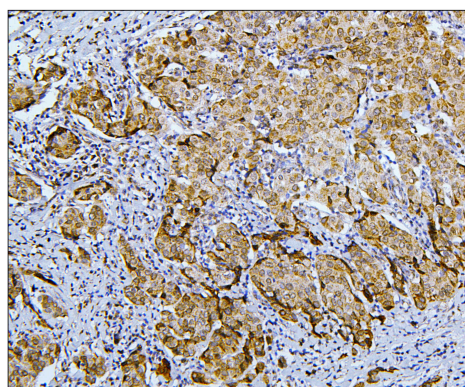
Lane 3: human HEK293 whole cell lysates,

Lane 4: human K562 whole cell lysates,

Lane 5: human HL-60 whole cell lysates.

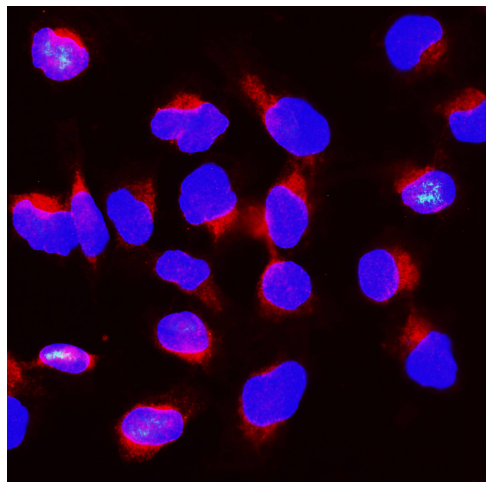
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-BubR1/BUB1B antigen affinity purified polyclonal antibody (A01564-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). 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.



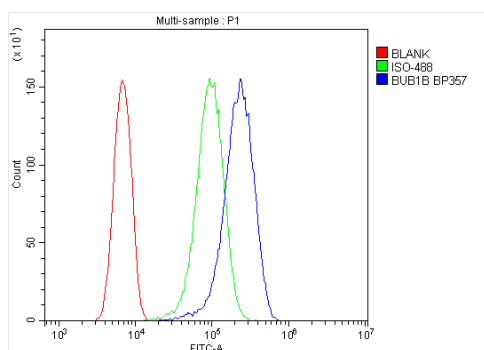
IHC analysis of BubR1/BUB1B using anti-BubR1/BUB1B antibody (A01564-1).

BubR1/BUB1B was detected in a paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-BubR1/BUB1B Antibody (A01564-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of BubR1/BUB1B using anti-BubR1/BUB1B antibody (A01564-1).

BubR1/BUB1B was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-BubR1/BUB1B Antibody (A01564-1) at a dilution of 1:100. Fluoro594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of U87 cells using anti-BubR1/BUB1B antibody (A01564-1).

Overlay histogram showing U87 cells stained with A01564-1 (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 rabbit anti-BubR1/BUB1B Antibody (A01564-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit 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.