

Anti-BUB1B Antibody (4Y527)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4Y527
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"> -Positive WB detected in: K562 whole cell lysate, U-251 whole cell lysate -All lanes: BubR1 antibody at 1:1000 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 120, 106, 122 kDa -Observed band size: 125 kDa
	<p>2. Overlay histogram showing Hela cells stained with TMAH-00125 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1*10^6$ cells) for 1 h at 4°C. The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG ($1\mu\text{g}/1*10^6$ cells) used under the same conditions. Acquisition of >10,000 events was performed.</p>
Application:	ELISA,FCM,WB
Recommended	WB:1:500-1:5000; FCM:1:20-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human BubR1
Antigen Species:	Human
Gene ID:	701
Uniprot ID:	O60566
Synonyms:	EC 2.7.11.1;Protein SSK1;BUBR1 MAD3L SSK1;Mitotic checkpoint kinase MAD3L;BUB 1B;Mitotic checkpoint serine/threonine-protein kinase BUB1 beta;MAD3/BUB1-related protein kinase; hBUBR1
Biology Area:	Epigenetics and Nuclear Signaling, Cancer, Cell biology

Research Background

Essential component of the mitotic checkpoint. Required for normal mitosis progression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions

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is to inhibit the activity of the anaphase-promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. May play a role for tumor suppression.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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