



Datasheet for ABIN3043764
anti-BUB1 antibody (AA 731-1085)



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2 Images

Overview

Quantity:	100 µg
Target:	BUB1
Binding Specificity:	AA 731-1085
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Mitotic checkpoint serine/threonine-protein kinase BUB1(BUB1) detection. Tested with WB in Human,Rat.
Immunogen:	E.coli-derived human Bub1 recombinant protein (Position: V731-K1085). Human Bub1 shares 81% amino acid (aa) sequence identity with mouse Bub1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Mitotic checkpoint serine/threonine-protein kinase BUB1(BUB1) detection. Tested with WB in Human,Rat. Gene Name: BUB1 mitotic checkpoint serine/threonine kinase Protein Name: Mitotic checkpoint serine/threonine-protein kinase BUB1
Purification:	Immunogen affinity purified.

Target Details

Target: BUB1

Alternative Name: BUB1 ([BUB1 Products](#))

Background: BUB1, also known as mitotic checkpoint serine/threonine kinase, is an enzyme that in humans is encoded by the BUB1 gene. It is mapped to 2q13. BUB1 is first identified in genetic screens of *Saccharomyces cerevisiae*. The protein is bound to kinetochores and plays a key role in the establishment of the mitotic spindle checkpoint and chromosome congression. The mitotic checkpoint kinase is evolutionary conserved in organisms as diverse as *Saccharomyces cerevisiae* and humans. Loss-of-function mutations or absence of BUB1 has been reported to result in aneuploidy, chromosomal instability (CIN) and premature senescence. The protein kinase BUB1 possesses versatile and distinct functions during the cell cycle, mainly in the SAC and chromosome alignment during metaphase.

Synonyms: Bub1 antibody|BUB1 budding uninhibited by benzimidazoles 1 homolog antibody|BUB1 budding uninhibited by benzimidazoles 1 homolog (yeast) antibody|BUB1 mitotic checkpoint serine/threonine kinase antibody|BUB1, *S. cerevisiae*, homolog of antibody|BUB1_HUMAN antibody|BUB1A antibody|BUB1L antibody|Budding uninhibited by benzimidazoles 1 (yeast homolog) antibody|Budding uninhibited by benzimidazoles 1 homolog antibody|Budding uninhibited by benzimidazoles 1, *S. cerevisiae*, homolog of antibody|hBUB1 antibody|Homolog of mitotic checkpoint gene BUB1 antibody|Mitotic checkpoint gene BUB1 antibody|Mitotic checkpoint serine/threonine protein kinase BUB1 antibody|Mitotic checkpoint serine/threonine-protein kinase BUB1 antibody|Mitotic spindle checkpoint kinase antibody|Putative serine/threonine protein kinase antibody

Gene ID: 699

UniProt: [O43683](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for Bub1 is approximately 0.25 ng/lane under reducing conditions.

Notes: Tested Species: Species with positive results.

Other applications have not been tested. Optimal dilutions should be determined by end users.

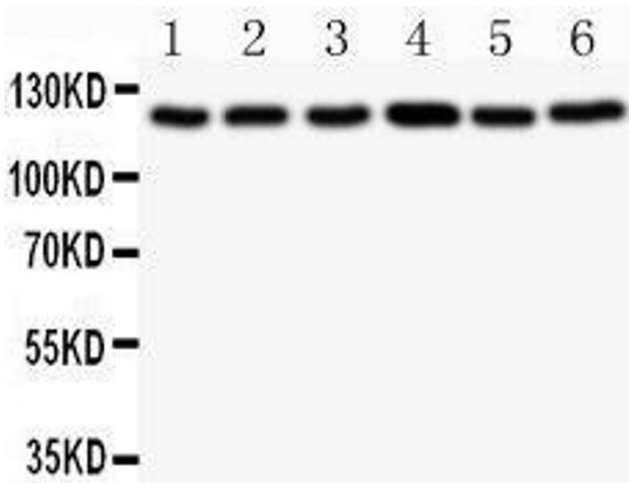
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Validation report #300031 for Immunohistochemistry (IHC)



Western Blotting

Image 1. Observed bind size: 122KD



Western Blotting

Image 2. Anti-Bub1 Picoband antibody, All lanes: Anti BUB1 at 0.5ug/ml WB: Recombinant Human BUB1 Protein 0.5ng
Predicted bind size: 39KD Observed bind size: 39KD