

Rabbit anti-Human, Rat BUB3 Polyclonal Antibody | anti-BUB3 antibody

Anti-BUB3 Antibody Picoband

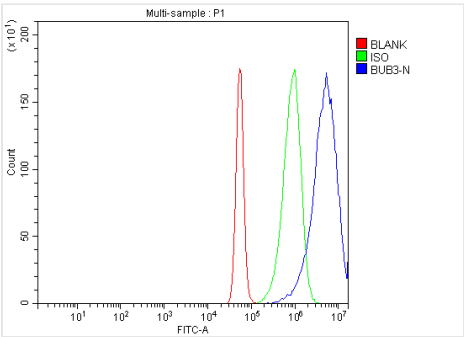
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126287	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

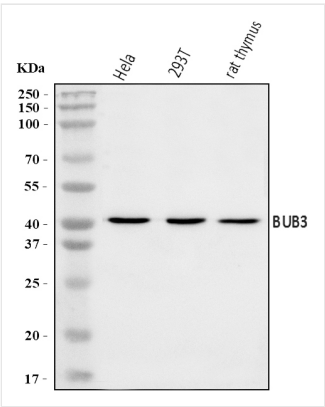
BUB3; Polyclonal Antibody; Anti-BUB3 Antibody Picoband; anti-BUB3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-BUB3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human BUB3 recombinant protein (Position: R50-D209).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of A431 cells using anti-BUB3 antibody (AAA126287).Overlay histogram showing A431 cells stained with AAA126287 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BUB3 Antibody (AAA126287, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. Dylight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of BUB3 using anti-BUB3 antibody (AAA126287).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. 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 293T whole cell lysates,Lane 3: rat thymus tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-BUB3 antigen affinity purified polyclonal antibody (#AAA126287) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for BUB3 at approximately 40 kDa. The expected band size for BUB3 is at 37 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-BUB3 antibody	BUB3(BUDDING UNINHIBITED BY BENZIMIDAZOLES 3) is a protein that in humans is encoded by the BUB3 gene. And it is mapped on 10q26.13. Bub3 is also a protein involved with the regulation of the Spindle Assembly Checkpoint(SAC); though BUB3 is non-essential in yeast, it is essential in higher eukaryotes. As one of the checkpoint proteins, Bub3 delays the irreversible onset of anaphase through direction of kinetochore localization during prometaphase to achieve biorentation. Bub3 directs the localization of Bub1 at the kinetochore in order to activate the SAC. Bub3 also acts as a regulator in that it affects binding of Mad3 to Mad2. Using deletion analysis, the authors identified a domain of BUB1 that is required both for binding BUB3 and for kinetochore localization of BUB1.
Product Categories/Family for anti-BUB3 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	56550081
NCBI GeneID	9184
NCBI Accession #	NP_001007794.1
NCBI GenBank Nucleotide #	NM_001007793.2
UniProt Accession #	O43684; O43685; A6NJ42; B2R6E7; D3DRE9
Molecular Weight	37,155 Da
NCBI Official Full Name	mitotic checkpoint protein BUB3 isoform b
NCBI Official Synonym Full Names	BUB3 mitotic checkpoint protein
NCBI Official Symbol	BUB3
NCBI Official Synonym Symbols	BUB3L; hBUB3

NCBI Protein Information	mitotic checkpoint protein BUB3; mitotic checkpoint component; budding uninhibited by benomyl; budding uninhibited by benzimidazoles 3 homolog; BUB3 budding uninhibited by benzimidazoles 3 homolog
UniProt Protein Name	Mitotic checkpoint protein BUB3
UniProt Gene Name	BUB3
UniProt Entry Name	BUB3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bub3-antibody-flow-cytometry-western-blot-elisa/126287>