BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-Bub3 Antibody Picoband®

Catalog Number: PA1645

About BUB3

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.

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Overview

Product Name	Anti-Bub3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Bub3 Antibody catalog # PA1645. Tested in IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, IHC-F, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O43684

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antibody and ELISA experts

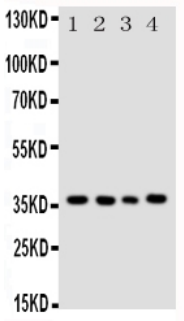
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Technical Details

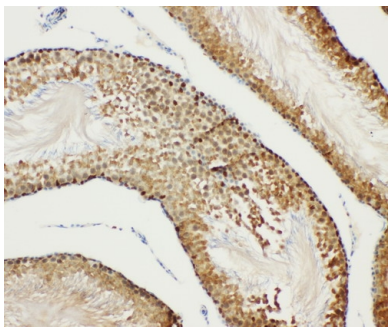
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Bub3, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P), IHC(F) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunocytochemistry , 0.5-1ug/ml, Human, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Rat, Human, Mouse Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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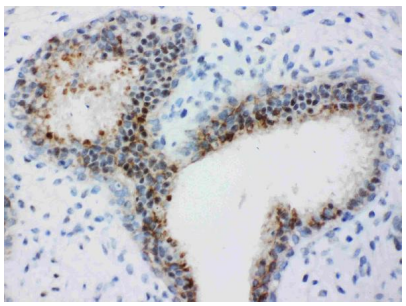
Anti-Bub3 Antibody Picoband® (PA1645) Images



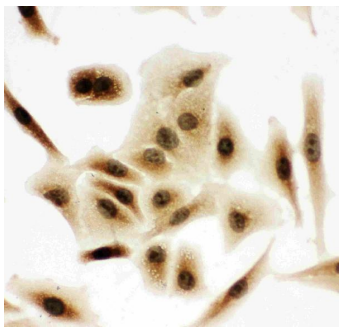
Anti-Bub3 antibody, PA1645, Western blottingAll lanes: Anti Bub3 (PA1645) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: JURKAT Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 37KDObserved bind size: 37KD



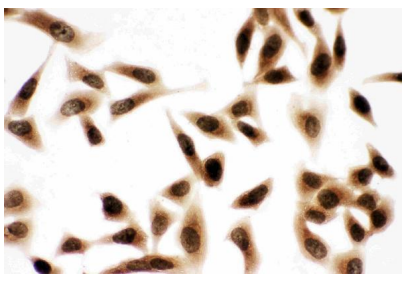
Anti-Bub3 antibody, PA1645, IHC(P)IHC(P): Rat Testis Tissue



Anti-Bub3 antibody, PA1645, IHC(P)IHC(P): Human Mammary Cancer Tissue

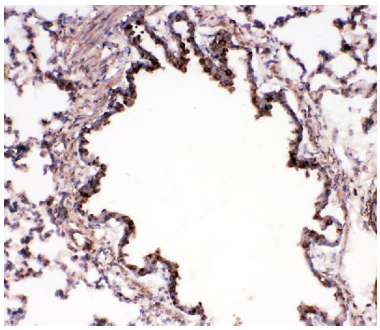


Anti-Bub3 antibody, PA1645, ICCICC: A549 Cell



Anti-Bub3 antibody, PA1645, ICCICC: HELA Cell

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IHC analysis of BUB3 using anti-BUB3 antibody (PA1645). BUB3 was detected in frozen section of rat lung tissues. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-BUB3 Antibody (PA1645) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Anti-Bub3 Antibody

For Research Use Only. Not for use in diagnostic procedures.