

## Anti-Bub3 Antibody

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.

### Overview

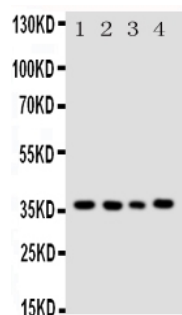
Product Name	Anti-Bub3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Bub3 Antibody catalog # PA1645. Tested in IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, IHC-F, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
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

### Technical Details

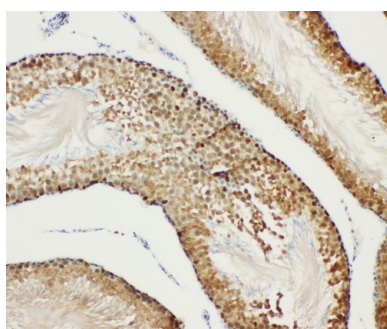
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Bub3, identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, 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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunocytochemistry , 0.5-1ug/ml, Human, Mouse, Rat</p> <p>Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Rat, Human, Mouse</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

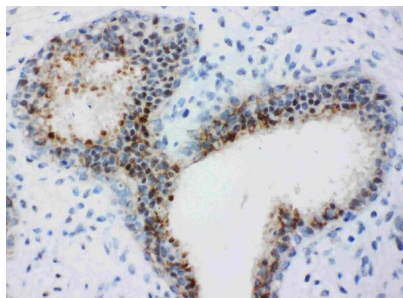
## Anti-Bub3 Antibody (PA1645) Images



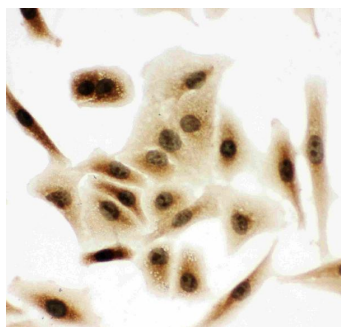
Anti-Bub3 antibody, PA1645, Western blotting  
All lanes: Anti Bub3 (PA1645) at 0.5ug/ml  
Lane 1: HELA Whole Cell Lysate at 40ug  
Lane 2: A549 Whole Cell Lysate at 40ug  
Lane 3: JURKAT Whole Cell Lysate at 40ug  
Lane 4: COLO320 Whole Cell Lysate at 40ug  
Predicted bind size: 37KD  
Observed bind 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, ICC  
ICC: A549 Cell

Anti-Bub3 antibody, PA1645, ICC  
ICC: HELA Cell

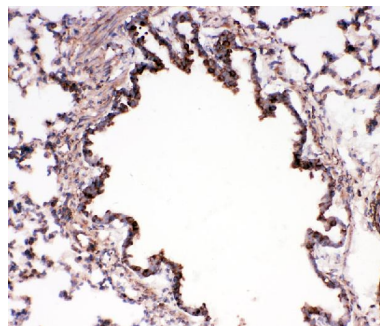
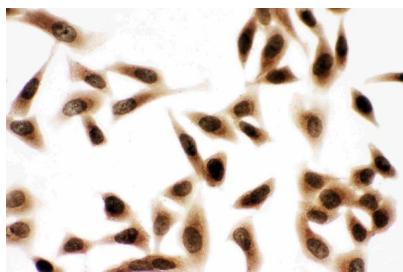


Figure 6. IHC analysis of BUB3 using anti-BUB3 antibody (PA1645).

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 Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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