

Anti-Bub3 Antibody

Catalog # ABO10960

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	O43684
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Mitotic checkpoint protein BUB3(BUB3) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	9184
Other Names	Mitotic checkpoint protein BUB3, BUB3
Calculated MW	37155
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse, Rat Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Rat, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Nucleus. Chromosome, centromere, kinetochore . Starts to localize at kinetochores in prometaphase I (Pro-MI) stage and maintains the localization until the metaphase I-anaphase I (MI-AI) transition. .
Source	Eukaryota
Protein Name	Mitotic checkpoint protein BUB3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Bub3(76-90aa DHQLKMHDNLNTDQEN), identical to the related rat and mouse sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After r ° Constitution, 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.
Sequence Similarities	Belongs to the WD repeat BUB3 family.

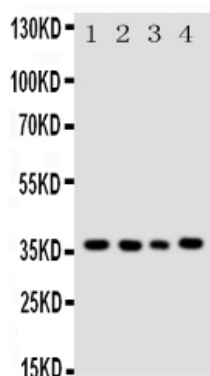
Protein Information

Name	BUB3
Function	Has a dual function in spindle-assembly checkpoint signaling and in promoting the establishment of correct kinetochore-microtubule (K-MT) attachments. Promotes the formation of stable end-on bipolar attachments. Necessary for kinetochore localization of BUB1. Regulates chromosome segregation during oocyte meiosis. The BUB1/BUB3 complex plays a role in the inhibition of anaphase-promoting complex or cyclosome (APC/C) when spindle-assembly checkpoint is activated and inhibits the ubiquitin ligase activity of APC/C by phosphorylating its activator CDC20. This complex can also phosphorylate MAD1L1.
Cellular Location	Nucleus. Chromosome, centromere, kinetochore. Note=Starts to localize at kinetochores in prometaphase I (Pro-MI) stage and maintains the localization until the metaphase I- anaphase I (MI-AI) transition.

Background

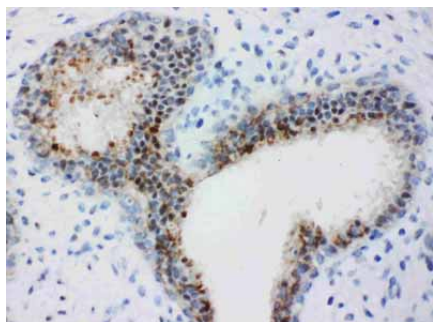
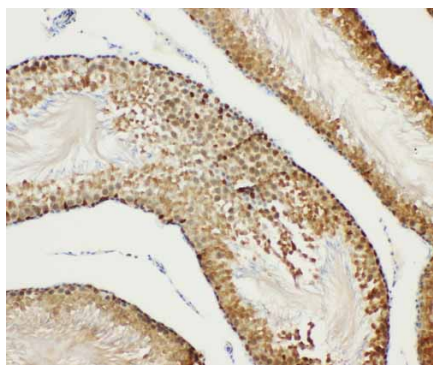
BUB3(BUDDING UNINHIBITED BY BENZIMIDAZOLES 3) is a protein that in humans is encoded by the BUB3 gene. And it is mapped on 10q26.13. Bub3 is also a protein involved with the regulation of the Spindle Assembly Checkpoint(SAC); though BUB3 is non-essential in yeast, it is essential in higher eukaryotes. As one of the checkpoint proteins, Bub3 delays the irreversible onset of anaphase through direction of kinetochore localization during prometaphase to achieve bioorientation. 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.

Images

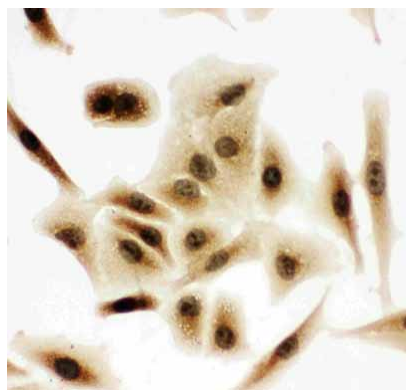


Anti-Bub3 antibody, ABO10960, Western blottingAll lanes:
 Anti Bub3 (ABO10960) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: JURKAT Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 37KDObserved bind size: 37KD

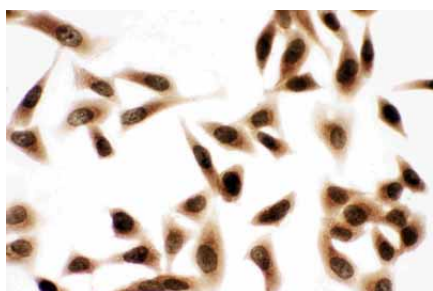
Anti-Bub3 antibody, ABO10960, IHC(P)IHC(P): Rat Testis Tissue



Anti-Bub3 antibody, ABO10960, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti-Bub3 antibody, ABO10960, ICCICC: A549 Cell



Anti-Bub3 antibody, ABO10960, ICCICC: HELA Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.