Data Sheet (Cat.No.TMAC-00488)

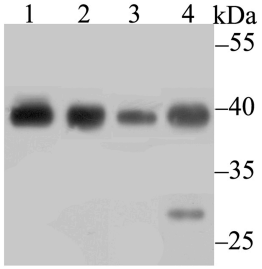
Anti-BUB3 Antibody (9N253)

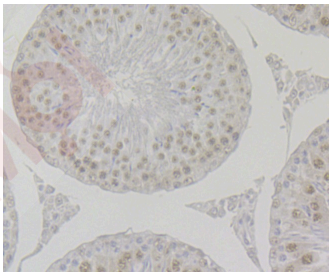
Product Details

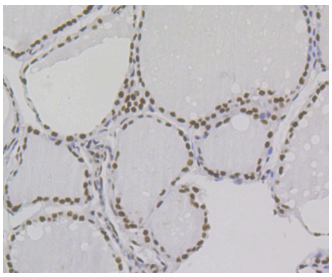
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 37 kDa.
Clone:	9N253
Purification:	ProA affinity purified

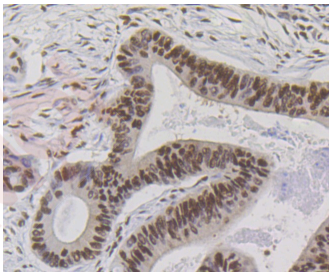
Applications

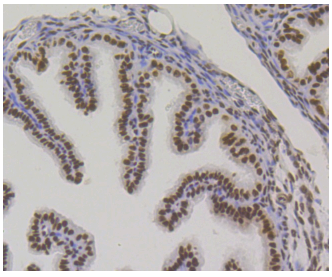
Verified Activity:	1. Western blot analysis of Bub3 on different lysates using anti-Bub3 antibody at 1/500 dilution. Positive control: Lane 1: A549, Lane 2: HL-60, Lane 3: A431, Lane 4: Rat colon. 2. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-Bub3 antibody. Counter stained with hematoxylin. 3. Immunohistochemical analysis of paraffin-embedded human thyroid gland tissue using anti-Bub3 antibody. Counter stained with hematoxylin. 4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Bub3 antibody. Counter stained with hematoxylin. 5. Immunohistochemical analysis of paraffin-embedded mouse fallopian tissue using anti-Bub3 antibody. Counter stained with hematoxylin. 6. ICC staining Bub3 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 7. ICC staining Bub3 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 8. ICC staining Bub3 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 9. Flow cytometric analysis of PC-3M cells with Bub3 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

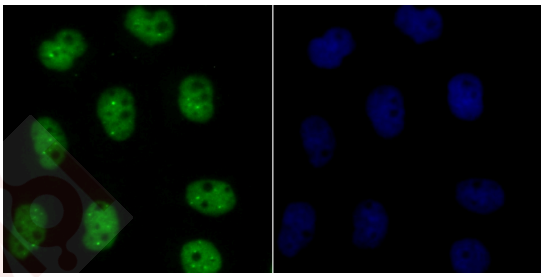


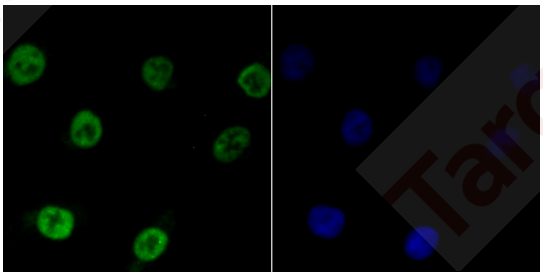


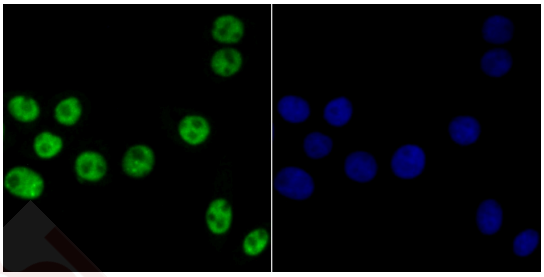


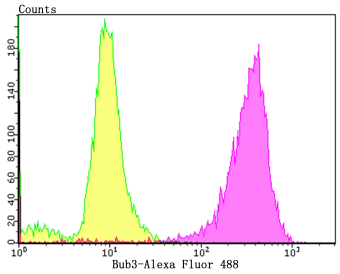












Application: FCM,ICC,IF,IHC,IP,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC: 1:50-200; IP: 1:10-50; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: N-terminus human Bub3

Antigen Species: human

Uniprot ID: O43684

Synonyms: C78067;AU021329;Mitotic checkpoint component;BUB3_HUMAN;Budding uninhibited by benzimidazoles 3;AW146323;bub3;Budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae);BUB3 budding uninhibited by benzimidazoles 3 homolog;AU019800;AU043350; BUB3 (budding uninhibited by benzimidazoles 3, yeast) homolog;Budding uninhibited by benzimidazoles 3, S. cerevisiae, homolog of;Budding uninhibited by benzimidazoles 3 homolog;Budding uninhibited by benzimidazoles 3 homolog (yeast);Mitotic checkpoint protein BUB3;OTTHUMP00000020679;BUB3 mitotic checkpoint protein;BUB 3;budding uninhibited by benomyl;Aa2-050;WD repeat type I transmembrane protein A72.5;BUB 3L;BUB3L; OTTHUMP00000020680;Hbub3

Research Background

BUB3 (budding uninhibited by benzimidazoles 3 homolog), also known as BUB3L or hBUB3, is a conserved component of the mitotic spindle assembly complex (MCC). It contains five WD repeat domains and forms cell cycle constitutive complexes with BUB1 and BUBR1. BUB3 is essential for the kinetochore localization of BUB1 and BUBR1. As a component of the MCC, BUB3 is involved in the essential spindle checkpoint pathway that operates during early embryogenesis. The spindle checkpoint pathway functions to postpone the initiation of anaphase until chromosomes are properly attached to the spindle. This acts to ensure accurate chromosome segregation. In addition, BUB3 plays a role in regulating the establishment of correct kinetochore-microtubule attachments. BUB3 is also thought to bind Tctex1L (or DYNLT3), a dynein light chain.

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