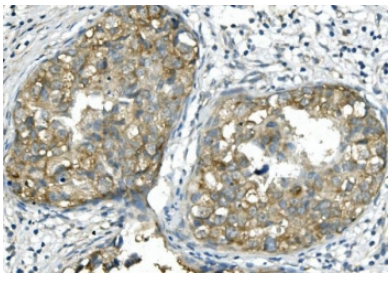
BUB1B Antibody / BubR1 [clone 5I7] (RQ5672)

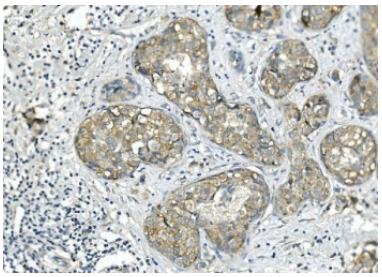
Catalog No.	Formulation	Size
RQ5672	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Name	5I7
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O60566
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This BUB1B antibody is available for research use only.



IHC staining of FFPE human breast cancer with BUB1B antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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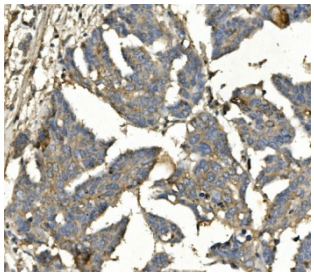
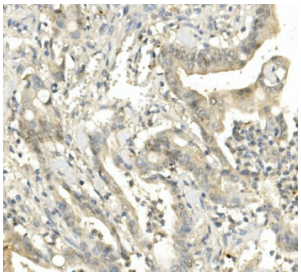
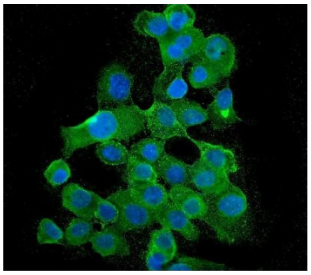


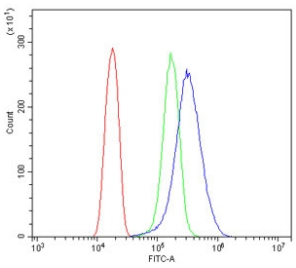
IHC staining of FFPE human ovarian cancer with BUB1B antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



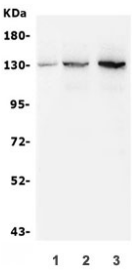
IHC staining of FFPE human rectal cancer with BUB1B antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human A431 cells with BUB1B antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human HeLa cells with BUB1B antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= BUB1B antibody.



Western blot testing of human 1) HeLa, 2) HEK293 and 3) K562 lysate with BUB1B antibody. Predicted molecular weight ~120 kDa.

Description

Mitotic checkpoint serine/threonine-protein kinase BUB1 beta is an enzyme that in humans is encoded by the BUB1B gene. This gene encodes a kinase involved in spindle checkpoint function. The protein has been localized to the kinetochore and plays a role in the inhibition of the anaphase-promoting complex/cyclosome (APC/C), delaying the onset of anaphase and ensuring proper chromosome segregation. Impaired spindle checkpoint function has been found in many forms of cancer.

Application Notes

Optimal dilution of the BUB1B antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K26-E448) was used as the immunogen for the BUB1B antibody.

Storage

After reconstitution, the BUB1B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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