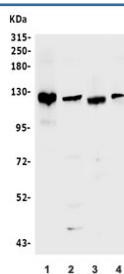


## Bub1 Antibody (RQ5869)

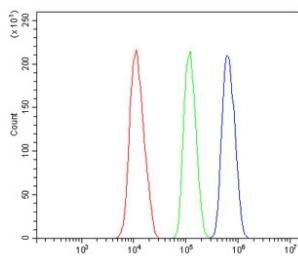
Catalog No.	Formulation	Size
RQ5869	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	O08901
<b>Applications</b>	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Bub1 antibody is available for research use only.



Western blot testing of 1) mouse testis, 2) rat heart, 3) rat PC-3 and 4) rat RH35 lysate with Bub1 antibody. Predicted molecular weight ~122 kDa.



Flow cytometry testing of mouse HEPA1-6 cells with Bub1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Bub1 antibody.

## Description

BUB1, also known as mitotic checkpoint serine/threonine kinase, is an enzyme that in humans is encoded by the BUB1 gene. It is mapped to 2q13. BUB1 is first identified in genetic screens of *Saccharomyces cerevisiae*. The protein is bound to kinetochores and plays a key role in the establishment of the mitotic spindle checkpoint and chromosome congression. The mitotic checkpoint kinase is evolutionary conserved in organisms as diverse as *Saccharomyces cerevisiae* and humans. Loss-of-function mutations or absence of BUB1 has been reported to result in aneuploidy, chromosomal instability (CIN) and premature senescence. The protein kinase BUB1 possesses versatile and distinct functions during the cell cycle, mainly in the SAC and chromosome alignment during metaphase.

## Application Notes

Optimal dilution of the Bub1 antibody should be determined by the researcher.

## Immunogen

Recombinant mouse protein (amino acids D40-K257) was used as the immunogen for the Bub1 antibody.

## Storage

After reconstitution, the Bub1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.