

**Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody**  
**BUBR1 Kinase Antibody**  
**Catalog # ASR4167****Specification**

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**Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - Product Information**

Host	<b>Mouse</b>
Conjugate	<b>Unconjugated</b>
Target Species	<b>Human</b>
Reactivity	<b>Human</b>
Clonality	<b>Monoclonal</b>
Application	<b>WB, E, IP, I, LCI</b>
Application Note	<b>This protein A purified antibody has been tested for use in immunoprecipitation, immunofluorescence staining and western blot and is capable of detecting endogenous protein. Specific conditions for reactivity should be optimized by the end user. Expect a predominant band at ~ 120 kDa corresponding to full-length protein by western blotting in the appropriate cell lysate or extract. Higher MW bands may be seen that may be due to hyper-phosphorylation of the protein. The use of HeLa whole cell lysates is recommended as a positive control. For IF microscopy use cells grown on cover slips fixed with 3.5% paraformaldehyde in PBS at pH 6.8. Permeabilize fixed cells with 0.2% Triton X-100 in 25 mM Tris Cl, pH 7.4 containing 0.1% BSA.</b>
Physical State	<b>Liquid (sterile filtered)</b>
Buffer	<b>0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</b>
Immunogen	<b>This protein A purified monoclonal antibody was produced by repeated immunizations with a recombinant protein corresponding to amino acid residues 1-350 of human BUBR1 Kinase protein.</b>
Preservative	<b>0.01% (w/v) Sodium Azide</b>

**Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - Additional Information****Gene ID 701****Other Names**  
701**Purity**

This Protein A purified antibody is directed against human BUBR1 Kinase protein. The product was

purified from tissue culture supernatant by chromatography. This antibody has only been tested on human cells. Reactivity against homologues from other sources is not known.

#### **Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

#### **Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### **Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - Protein Information**

**Name** BUB1B

**Synonyms** BUBR1, MAD3L, SSK1

#### **Function**

Essential component of the mitotic checkpoint. Required for normal mitosis progression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions is to inhibit the activity of the anaphase-promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. May play a role for tumor suppression.

#### **Cellular Location**

Cytoplasm. Nucleus. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Cytoplasmic in interphase cells. Associates with the kinetochores in early prophase. Kinetochore localization requires BUB1, PLK1 and KNL1

#### **Tissue Location**

Highly expressed in thymus followed by spleen. Preferentially expressed in tissues with a high mitotic index

### **Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - Images**

### **Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - Background**

BUBR1 Kinase (BUB1-related protein kinase) is a probable component of the mitotic checkpoint that delays anaphase until all chromosomes are properly attached to the mitotic spindle. This protein can interact with BUB3, CENP-F, CENP-E and mitosis. BUBR1 Kinase is found within the cytoplasm in interphase cells, but when bound to BUB3 or CENP-E, it can be localized to nuclear kinetochores. This protein is highly expressed in thymus followed by spleen. Defects in BUB1B are associated with tumor formation.