

Datasheet for 200-301-902**BUBR1 Kinase Antibody****Overview**

Description:	Anti-BUBR1 Kinase (MOUSE) Monoclonal Antibody - 200-301-902
Item No.:	200-301-902
Size:	100 µg
Applications:	IP, WB, IF, Multiplex
Reactivity:	Human
Host Species:	Mouse

Product Details

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 mitotin. 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.
Synonyms:	mouse anti-BUBR1 antibody, Beta homolog of <i>S. cerevisiae</i> budding uninhibited by benzimidazoles antibody, BUB1 budding uninhibited by benzimidazoles 1 homolog beta antibody, Bub1A antibody, Mitotic checkpoint serine/threonine-protein kinase BUB1 beta, Mitotic checkpoint kinase MAD3L, MAD3/BUB1-related protein kinase, hBUBR1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	8G1
Format:	IgG1

Target Details

Gene Name:	BUB1B
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	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.
Purity/Specificity:	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.
Relevant Links:	• NCBI - NP_001202.4 • UniProtKB - O60566 • GeneID - 701

Application Details

Tested Applications:	IP, WB
Suggested Applications:	IF, Multiplex (Based on references)
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IF:	1:200 - 1:1,000
IP:	1:100
WB:	1:200 - 1:1,000

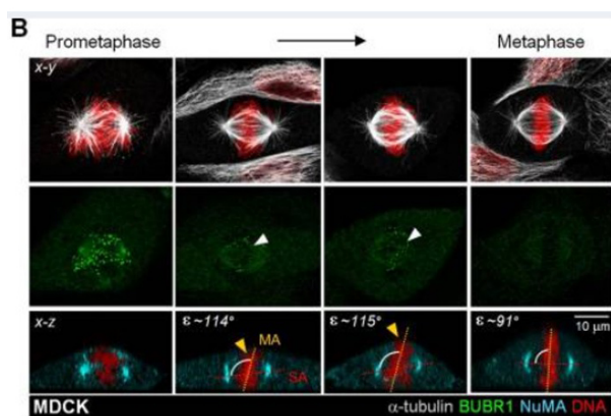
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Confinement interferes with the perpendicularity between the spindle pole axis and the metaphase plate during astral MT-mediated spindle alignment.

(B) BUBR1, a spindle assembly checkpoint protein, was detected in prometaphase profiles and in metaphase profiles (white arrowheads) with high ϵ .

Figure 6. PMID: 25657320

References

- Lázaro-Diéguéz et al. Cell shape impacts on the positioning of the mitotic spindle with respect to the substratum. *Molecular Biology of the Cell* (2015)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.