

# Product Datasheet

## BubR1 Antibody (8G1) - BSA Free NB100-353

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NB100-353**

BubR1 Antibody (8G1) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	8G1
Preservative	0.1% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	120 kDa

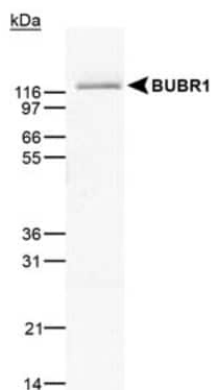
Product Description	
Description	Novus Biologicals Mouse BubR1 Antibody (8G1) - BSA Free (NB100-353) is a monoclonal antibody validated for use in WB, Flow, ICC/IF and IP. Anti-BubR1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	701
Gene Symbol	BUB1B
Species	Human, Mouse
Specificity/Sensitivity	NB100-353 is specific for hBUBR1. There should be no cross-reactivity with hBUB1.
Immunogen	A portion of human BubR1 tagged at the N-terminus with pMAL (residues 1-350). [UniProt# O60566]

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1:2000-1:5000, Flow Cytometry 1 ug per million cells, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10-1:500, CyTOF-ready
Application Notes	This BubR1 (8G1) antibody is useful for Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunoprecipitation and Western blot. By WB, this antibody recognizes a band at ~120 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. This antibody is CyTOF ready.

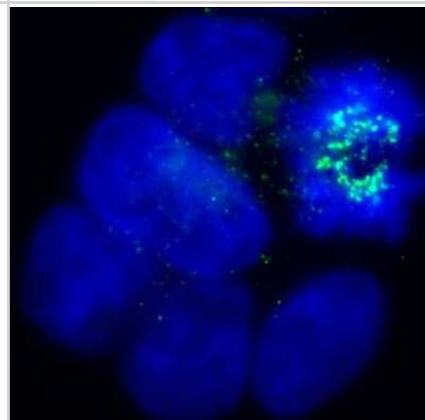


## Images

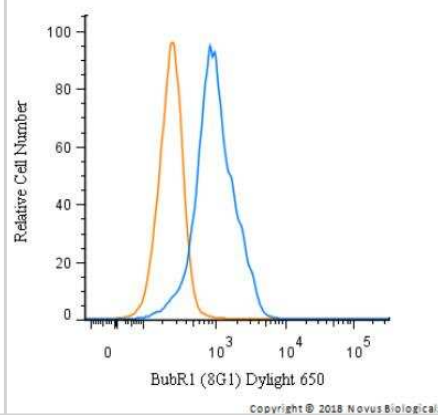
Western Blot: BubR1 Antibody (8G1) [NB100-353] - BUBR1 detected in HeLa cell lysate using NB 100-353.



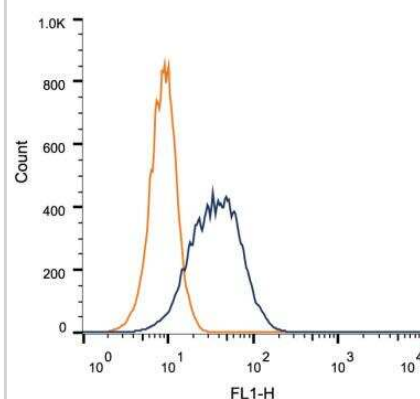
Immunocytochemistry/Immunofluorescence: BubR1 Antibody (8G1) [NB100-353] - Immunofluorescence of an asynchronous cycling population of human cells (U2OS) with NB100-353. No signal is detected from interphase cells, whereas cells undergoing mitosis accumulate BubR1 at the kinetochores. Image reveals kinetochores at prometaphase. Image courtesy of Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK.



Flow Cytometry: BubR1 Antibody (8G1) [NB100-353] - An intracellular stain was performed on HeLa cells with BubR1 Antibody (8G1) NB100-353C (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Dylight 650.



Flow Cytometry: BubR1 Antibody (8G1) [NB100-353] - Intracellular flow cytometric staining of  $1 \times 10^6$  HEK-293 cells using BubR1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/ $1 \times 10^6$  cells was used.



## Publications

Kiseljak-Vassiliades K, Zhang Y, Kar A et al. Elucidating the Role of the Maternal Embryonic Leucine Zipper Kinase (MELK) in Adrenocortical Carcinoma *Endocrinology* 2018-05-21 [PMID: 29790920] (WB, Human)

Martini S, Soliman T, Gobbi G, Mirandola P et al. PKC epsilon Controls Mitotic Progression by Regulating Centrosome Migration and Mitotic Spindle Assembly *Mol. Cancer Res.* 2017-10-11 [PMID: 29021232] (ICC/IF, Human)

Bohers E, Sarafan-Vasseur N, Drouet A et al. Gradual reduction of BUBR1 protein levels results in premature sister-chromatid separation then in aneuploidy. *Hum Genet* 2008-12-01 [PMID: 18932004] (WB, Human)

De Rycker M, Rigoreau L, Dowding S et al. A high-content, cell-based screen identifies micropolyin, a new inhibitor of microtubule dynamics. *Chem Biol Drug Des* 2009-06-01 [PMID: 19635051] (ICC/IF, Human)

Silio V, Redondo-Munoz J, Carrera AC. Phosphoinositide 3-kinase beta regulates chromosome segregation in mitosis *Mol Biol Cell* 2012-12-01 [PMID: 23051731] (ICC/IF, Human)

Deeraksa A, Pan J, Sha Y et al. Plk1 is upregulated in androgen-insensitive prostate cancer cells and its inhibition leads to necroptosis. *Oncogene* 2012-08-01 [PMID: 22890325] (WB, Human)

Chan, GK et al. Human BUBR1 is a mitotic checkpoint kinase that monitors CENP-E functions at kinetochores and binds the cyclosome/APC. *J Cell Biol*;146(5):941-54. 1999-09-06 [PMID: 10477750]

Trachana, V et al. Dido disruption leads to centrosome amplification and mitotic checkpoint defects compromising chromosome stability. *Proc Natl Acad Sci U S A*;104(8):2691-6. 2007-02-20 [PMID: 17299043]





### Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### General Contact Information

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### Products Related to NB100-353

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NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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