OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA301741

BubR1 (BUB1B) Mouse Monoclonal Antibody [Clone ID: 8G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8G1
Applications:	CyTOF-ready, FC, ICC/IF, IP, WB
Recommended Dilution:	Flow Cytometry: 1 ug per million cells, Immunoprecipitation: 1:10-1:500, Western Blot: 1:2000-1:5000, Immunocytochemistry/ Immunofluorescence: 1:100, CyTOF-ready
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	A portion of hBUBR1 tagged at the N-terminus with pMAL (residues 1-350 of human BUBR1).
Formulation:	PBS with 0.1% Sodium Azide
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	119.4 kDa
Gene Name:	BUB1 mitotic checkpoint serine/threonine kinase B
Database Link:	NP_001202 Entrez Gene 12236 MouseEntrez Gene 701 Human O60566

View online »

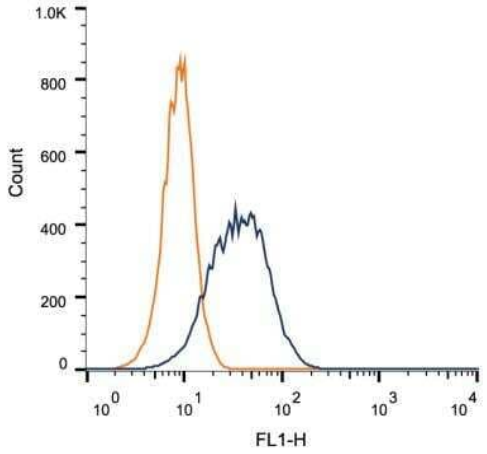
Background: Compromised spindle checkpoints are thought to play an important role in genetic instability that predisposes cells to malignant transformations. Human cells contain two related checkpoint protein kinases, evolved from the BUB1 gene; hBUBR1 and hBUB1. They are important components of the spindle checkpoint Both kinases monitor mitotic kinetochore-microtubule interactions. hBUBR1 is essential for normal mitotic progression as it prevents cells from entering into anaphase too early. BUBR1 has been detected in human cancers. It has been identified as a novel binding partner of BCSG1 (Breast Cancer-Specific Gene 1), which has been suggested to accelerate the progression of breast cancer by compromising the mitotic checkpoint control through inactivation of BUBR1.

Synonyms: Bub1A; BUB1beta; BUBR1; hBUBR1; MAD3L; MVA1; SSK1

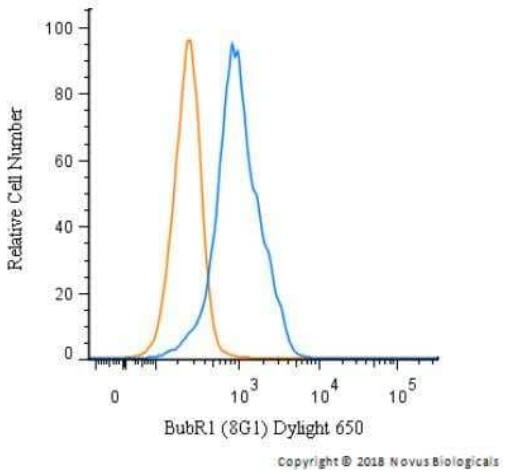
Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Cell cycle

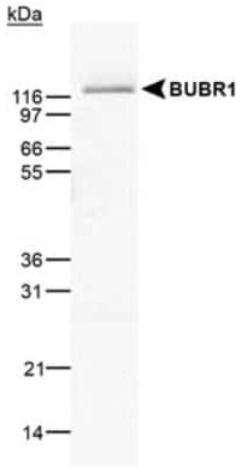
Product images:



Flow Cytometry: BubR1 Antibody (8G1) TA301741 - Intracellular flow cytometric staining of 1 x 10^6 HEK-293 cells using BubR1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.



Flow Cytometry: BubR1 Antibody (8G1) TA301741 - An intracellular stain was performed on HeLa cells with BubR1 Antibody (8G1)[TA301741C] (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.



Western Blot: BubR1 Antibody (8G1) TA301741 - BUBR1 detected in HeLa cell lysate using NB 100-353.