

# Product Datasheet

## Aurora B Antibody (6G2) - BSA Free NBP2-50054

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-50054**

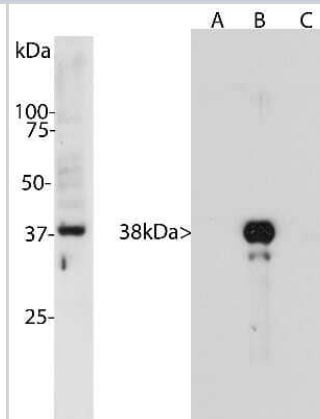
Aurora B Antibody (6G2) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6G2
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	38 kDa
Product Description	
Host	Mouse
Gene ID	9212
Gene Symbol	AURKB
Species	Human, Canine, Equine
Specificity/Sensitivity	This antibody does not cross-react with Aurora A or Aurora C.
Immunogen	Recombinant full length human Aurora B. [UniProt# Q96GD4]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000 - 1:2000, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:2000

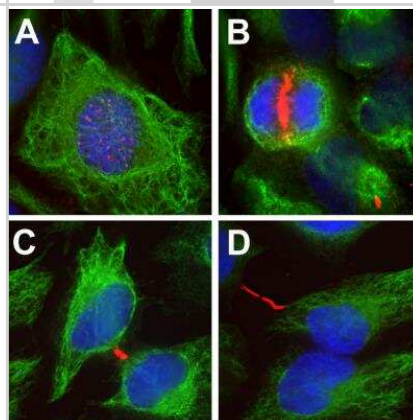


## Images

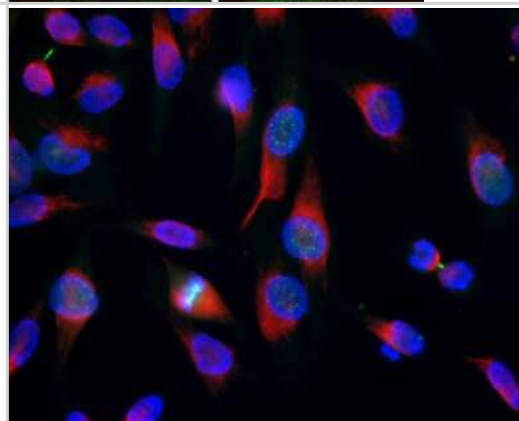
**Western Blot: Aurora B Antibody (6G2) [NBP2-50054]** - Left: Analysis of HeLa cells treated with 100ng/ml nocodazole for 18 hours was probed with NBP2-50054. Nocodazole is a microtubule polymerization inhibitor which induces cells to halt at the G2/M phase and also induces Aurora B expression. NBP2-50054 binds strongly to Aurora B at 38 kDa. Right: Blots of recombinant human Aurora A, B and C were probed with NBP2-50054.



**Immunocytochemistry/Immunofluorescence: Aurora B Antibody (6G2) [NBP2-50054]** - Analysis of HeLa cells stained with mouse mAb to aurora B kinase, NBP2-50054, dilution 1:1,000 in red, and costained with chicken pAb to vimentin, dilution 1:10,000 in green. Blue is DAPI staining of nuclear DNA. NBP2-50054 antibody produces strong staining associated with chromosomes in prophase (A), the centromere in prometaphase and metaphase (B), the central mitotic spindle in anaphase (C), and midbodies between the two daughter cells during telophase and beyond (D). The vimentin antibody stains the intermediate filament network in these cells.



**Immunocytochemistry/Immunofluorescence: Aurora B Antibody (6G2) [NBP2-50054]** - HeLa cell cultures were stained with NBP2-50054 (green). Localization of Aurora B is cell cycle phase dependent. First, Aurora B staining was seen in chromosome arm in cells in prophase (green small dots). During anaphase, Aurora B localized in midzone and then concentrated in midbodies between the two daughter cells during telophase. It is therefore a useful marker of midbodies and dividing cells. Cells were counterstained with chicken polyclonal antibody to Vimentin (NB300-223, red). Blue is a DNA stain.





### **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](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-50054**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-30242	Recombinant Human Aurora B His Protein

### **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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