

# Product Datasheet

## Aurora B Antibody (3F11) - BSA Free NBP2-50039

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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**NBP2-50039**

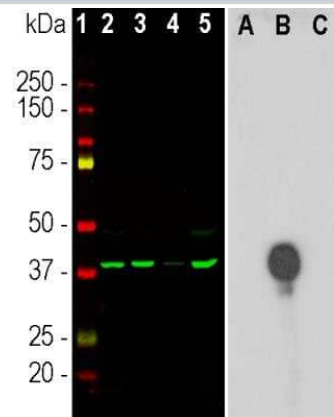
Aurora B Antibody (3F11) - BSA Free

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	3F11
Preservative	0.035% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	38 kDa
Product Description	
Host	Mouse
Gene ID	9212
Gene Symbol	AURKB
Species	Human, Mouse, Rat, Bovine, Equine
Specificity/Sensitivity	This antibody does not cross-react with Aurora A or Aurora C.
Immunogen	Full length recombinant human aurora B protein expressed in and purified from E. coli.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Proximity Ligation Assay
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Proximity Ligation Assay
Application Notes	Use in PLA reported in scientific literature (PMID:35853811).

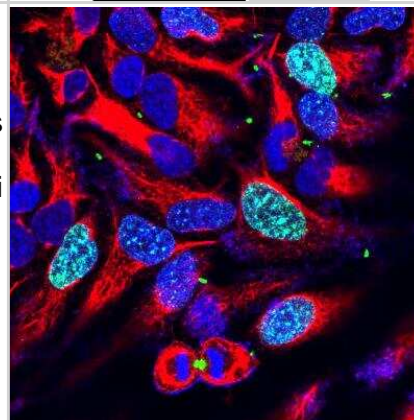


## Images

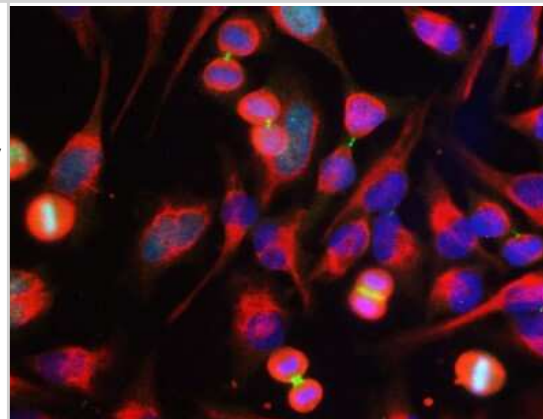
**Western Blot: Aurora B Antibody (3F11) [NBP2-50039]** - Analysis of different cell lysates and recombinant protein solutions using mouse mAb to Aurora B. Left: cells were treated with 100ng/mL of nocodazol, a microtubule depolymerizing agent which induces cells to halt at G2/M phase. [1] protein standard, [2] HeLa, [3] canine A72 cells, [4] equine NBL6 cells, and [5] mouse KR158 cells. Right: Blot of purified full length recombinant human aurora A, B and C were probed with NBP2-50039. The antibody binds specifically only to aurora B and not to the closely related aurora A and C.



**Immunocytochemistry/Immunofluorescence: Aurora B Antibody (3F11) [NBP2-50039]** - High magnification confocal immunofluorescence of HeLa cells stained with NBP2-50039, diluted 1:1,000 in green and counterstained with antibody to vimentin at 1:1,000 dilution in red. Blue is the DNA stain DAPI revealing the nuclei. The MCA-3F11 reveals aurora B localized in midbodies, midzones of dividing cells and also in the nuclei of some cells.



**Immunocytochemistry/Immunofluorescence: Aurora B Antibody (3F11) [NBP2-50039]** - HeLa cell cultures were stained with NBP2-50039 (green). Aurora B stains midzones in anaphase and midbodies between the two daughter cells during telophase. It is therefore a useful marker of dividing cells. Cells were counterstained with chicken polyclonal antibody to Vimentin (NB300-223, red). Blue is a DNA stain.



## Publications

Song J, Zhou Y, Yakymovych I et al. The ubiquitin-ligase TRAF6 and TGF beta type I receptor form a complex with Aurora kinase B contributing to mitotic progression and cytokinesis in cancer cells EBioMedicine 2022-07-09 [PMID: 35853811] (PLA, ICC/IF, Human)

Monroe T O, Hill M C et al. YAP Partially Reprograms Chromatin Accessibility to Directly Induce Adult Cardiogenesis In Vivo. Dev Cell 2019-03-25 [PMID: 30773489] (IF/IHC, Mouse)

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**Products Related to NBP2-50039**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NBP1-30242	Recombinant Human Aurora B His Protein

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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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