

Product Datasheet

Aurora B Antibody - BSA Free NB100-294

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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NB100-294

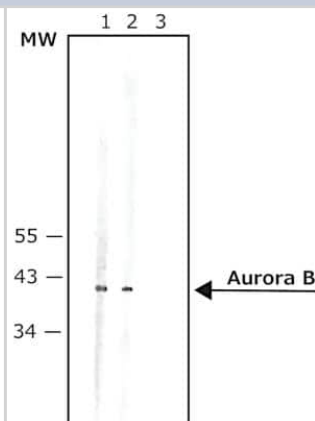
Aurora B Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	12.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	IgG purified
Buffer	10mM PBS (pH 7.4)
Target Molecular Weight	41 kDa
Product Description	
Host	Rabbit
Gene ID	9212
Gene Symbol	AURKB
Species	Human, Mouse, Rat
Marker	Mitosis Marker
Specificity/Sensitivity	Aurora B
Immunogen	Synthetic peptide corresponding to amino acids 1-19 of human Aurora B with C-terminal added cysteine conjugated to KLH. Uniprot accession no. Q96GD4
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Microarray
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:50, Immunoprecipitation 50-60 ug, Immunohistochemistry-Paraffin 1:10-1:500, Microarray
Application Notes	By Western blot, it detects a band of approximately 41 kDa. Detection of the Aurora B band by immunoblotting is specifically inhibited with the immunizing peptide.

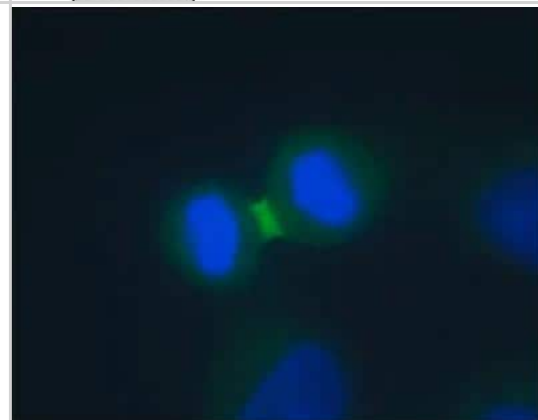


Images

Western Blot: Aurora B Antibody - BSA Free [NB100-294] - Whole extract of PC-12 cells were separated on SDS-PAGE and probed with Anti-Aurora B antibody produced in Rabbit. The antibody was developed using 1:10,000 Anti-Rabbit IgG (whole molecule)-Peroxidase antibody produced in Goat. Lanes: 1. 1:1000 antibody 2. 1:2000 antibody 3. Negative Control



Immunocytochemistry/Immunofluorescence: Aurora B Antibody - BSA Free [NB100-294] - HeLa human cervix epitheloid carcinoma cells were fixed and permeabilized with 4% paraformaldehyde followed by cold methanol. Fixed cells were stained with 1:50 Anti-Aurora B antibody produced in rabbit. The antibody was developed using Anti-Rabbit IgG (whole molecule)-FITC antibody produced in goat.



Publications

Carlotta Penzo, Laura Arnoldo, Silvia Pegoraro, Sara Petrosino, Gloria Ros, Rossella Zanin, Jacek R. Wiśniewski, Guidalberto Manfioletti, Riccardo Sgarra HMGA1 Modulates Gene Transcription Sustaining a Tumor Signalling Pathway Acting on the Epigenetic Status of Triple-Negative Breast Cancer Cells *Cancers* 2019-08-02 [PMID: 31382504]

Chang X Hi-511 Inhibits Both BRAF and AURKB to Overcome Malignant Melanoma Drug Resistance and Metastasis Thesis 2020-01-01

Chang X, Zhang T, Wang Q et al. HI-511 overcomes melanoma drug resistance via targeting AURKB and BRAF V600E Theranostics 2020-08-01 [PMID: 32863956] (Human)

Fang H, Niu K, Mo D et al. RecQL4-Aurora B kinase axis is essential for cellular proliferation, cell cycle progression, and mitotic integrity. *Oncogenesis* 2018-09-12 [PMID: 30206236] (ICC/IF, Human)

Dumitru AMG, Rusin SF, Clark AEM et al. Cyclin A/Cdk1 modulates Plk1 activity in prometaphase to regulate kinetochore-microtubule attachment stability *Elife*. 2017-11-20 [PMID: 29154753] (ICC/IF, WB, Human)

Details:
HEC1 IF antibody used at a dilution of 1:500

Sijare F, Geibler AL, Fichter CD et al. Aurora B expression and histone variant H1.4S27 phosphorylation are no longer coordinated during metaphase in aneuploid colorectal carcinomas *Virchows Arch*. 2015-02-14 [PMID: 25680570] (ICC/IF)

Kleyman M, Kabeche L, Compton DA. STAG2 promotes error correction in mitosis by regulating kinetochore-microtubule attachments. *J. Cell. Sci.* 2014-07-29 [PMID: 25074805] (ICC/IF, Human)

Details:
Outer kinetochore component Hec1/NDC80 antibody used in ICC-IF on HCT116 and RPE1 cells for measuring centromere stretch (Fig. 1D, supplementary material Fig. S2A)

Kabeche L, Compton DA. Cyclin A regulates kinetochore microtubules to promote faithful chromosome segregation. *Nature*. 2013-10-03 [PMID: 24013174] (ICC/IF, Human)

Kabeche L, Compton DA. Checkpoint-independent stabilization of kinetochore-microtubule attachments by Mad2 in human cells. *Curr Biol* 2012-04-01 [PMID: 22405866] (ICC/IF, Human)

Lee EC, Frolov A, Li R et al. Targeting Aurora kinases for the treatment of prostate cancer. *Cancer Res* 2006-05-01 [PMID: 16707419]

Beussel S, Hasenburger A, Bogatyreva L, Hauschke D, Werner M, Lassmann S. Aurora-B protein expression is linked to initial response to taxane-based first-line chemotherapy in stage III ovarian carcinoma. *J Clin Pathol*;65(1):29-35. 2012-01-01 [PMID: 22011448] (IF/IHC, Human)

Bufo P, Sanguedolce F, Tortorella S et al. Expression of mitotic kinases phospho-aurora A and aurora B correlates with clinical and pathological parameters in bladder neoplasms. *Histol Histopathol*;25(11):1371-7. 2010-11-01 [PMID: 20865660]





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Products Related to NB100-294

NBL1-07860	Aurora B Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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