Datasheet for ABIN1882163

anti-Aurora A antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	Aurora A (AURKA)
Binding Specificity:	AA 364-392, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aurora A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	This Aurora-A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 364-392 amino acids from the C-terminal region of human Aurora-A.
Clone:	RB6834
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	Aurora A (AURKA)
Alternative Name:	Aurora-A (AURKA Products)

Target Details

Background:	Chromosomal segregation during mitosis as well as meiosis is regulated by kinases and phosphatases. The Aurora kinases, members of the Ser/Thr protein kinase family, associate with microtubules during chromosome movement and segregation. Auroria kinase A may play a role in cell cycle regulation during anaphase and/or telophase, in relation to the function of the centrosome/spindle pole region during chromosome segregation. It may be involved in microtubule formation and/or stabilization. This protein has also been postulated to play a key role during tumor development and progression. Aurora kinase A localizes on centrosomes in interphase cells and at each spindle pole in mitosis. It is highly expressed in testis, weakly in skeletal muscle, thymus and spleen, and also highly expressed in colon, ovarian, prostate, neuroblastoma, breast and cervical cancer cell lines. Expression is cell-cycle regulated, low in G1/S, accumulates during G2/M, and decreases rapidly afterward. Defects in Aurora kinase A are responsible for numerical centrosome aberrations including aneuploidy.
Molecular Weight:	45809
NCBI Accession:	NP_003591, NP_940835, NP_940836, NP_940837, NP_940838, NP_940839
UniProt:	O14965
Pathways:	Cell Division Cycle, Asymmetric Protein Localization

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. WB: 1:1000. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

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Publications

Product cited in:

Nakamura, Hirano, Okinaka, Takemura, Yokota, Ono, Shigeno, Shibata, Fujisawa, Ohnishi: "The FOXM1 transcriptional factor promotes the proliferation of leukemia cells through modulation of cell cycle progression in acute myeloid leukemia." in: **Carcinogenesis**, Vol. 31, Issue 11, pp. 2012-21, (2010) (PubMed).

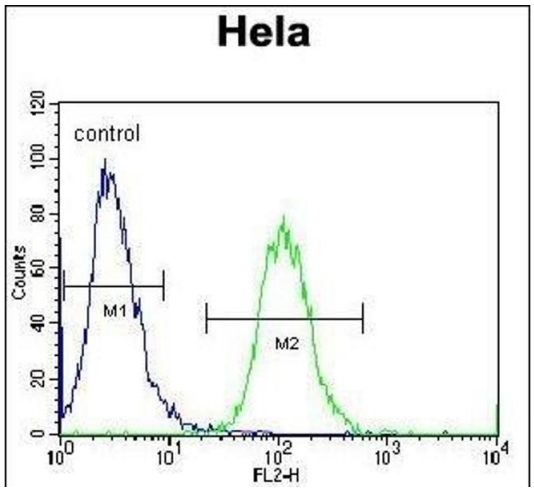
Strausberg, Feingold, Grouse, Derge, Klausner, Collins, Wagner, Shenmen, Schuler, Altschul, Zeeberg, Buetow, Schaefer, Bhat, Hopkins, Jordan, Moore, Max, Wang, Hsieh, Diatchenko, Marusina, Farmer et al.: "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. ..." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 99, Issue 26, pp. 16899-903, (2002) (PubMed).

Tanaka, Ueda, Kanamori, Ideguchi, Yang, Kitajima, Ishigatsubo: "Cell-cycle-dependent regulation of human aurora A transcription is mediated by periodic repression of E4TF1." in: **The Journal of biological chemistry**, Vol. 277, Issue 12, pp. 10719-26, (2002) (PubMed).

Deloukas, Matthews, Ashurst, Burton, Gilbert, Jones, Stavrides, Almeida, Babbage, Bagguley, Bailey, Barlow, Bates, Beard, Beare, Beasley, Bird, Blakey, Bridgeman, Brown, Buck, Burrill, Butler, Carder et al.: "The DNA sequence and comparative analysis of human chromosome 20. ..." in: **Nature**, Vol. 414, Issue 6866, pp. 865-71, (2002) (PubMed).

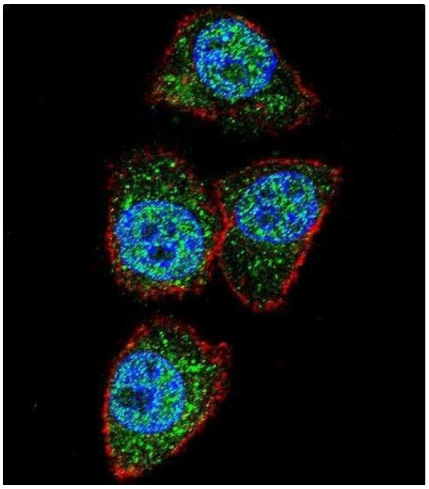
Nigg: "Mitotic kinases as regulators of cell division and its checkpoints." in: **Nature reviews. Molecular cell biology**, Vol. 2, Issue 1, pp. 21-32, (2001) (PubMed).

There are more publications referencing this product on: Product page



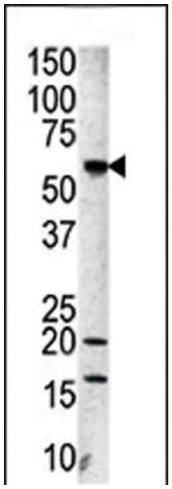
Flow Cytometry

Image 1. Aurora-A Antibody (C-term) (ABIN1882163 and ABIN2841166) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of Aurora-A Antibody (C-term) (ABIN1882163 and ABIN2841166) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. Western blot analysis of anti-Aurora-A Pab (ABIN1882163 and ABIN2841166) in cell line lysate.Aurora-A(arrow) was detected using the purified Pab.

Please check the product details page for more images. Overall 4 images are available for ABIN1882163.