abcam

Product datasheet

Anti-Aurora A antibody [35C1] ab13824

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概述

产品名称	Anti-Aurora A抗体[35C1]
描述	小鼠单克隆抗体[35C1] to Aurora A
宿主	Mouse
经测试应用	**适用于:** Flow Cyt (Intra), WB, ICC/IF
种属反应性	**与反应:** Human **预测可用于:** Mouse
免疫原	Recombinant full length protein corresponding to Human Aurora A.
阳性对照	Human HeLa and mouse M-ICc12 cell lysates for Western blotting and human 293 or mouse LLC1 cell lines for IF. Flow Cyt (Intra): HeLa cells. ICC: HeLa cells
常规说明	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	35C1

骨髓瘤	Sp2/0-Ag14
同种型	IgG2b

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab13824于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		Use 2µg for 10^6 cells. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
WB	★★★★☆ (5)	Use a concentration of 1 µg/ml. Detects a band of approximately 46 kDa.
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.

靶标

功能 Contributes to the regulation of cell cycle progression. Required for normal mitosis. Associates with the centrosome and the spindle microtubules during mitosis and functions in centrosome maturation, spindle assembly, maintenance of spindle bipolarity, centrosome separation and mitotic checkpoint control. Phosphorylates numerous target proteins, including ARHGEF2, BRCA1, KIF2A, NDEL1, PARD3, PLK1 and BORA. Regulates KIF2A tubulin depolymerase activity (By similarity). Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization.

组织特异性 Highly expressed in testis and weakly in skeletal muscle, thymus and spleen. Also highly expressed in colon, ovarian, prostate, neuroblastoma, breast and cervical cancer cell lines.

序列相似性 Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily. Contains 1 protein kinase domain.

翻译后修饰 Activated by phosphorylation at Thr-288; this brings about a change in the conformation of the activation segment. Phosphorylation at Thr-288 varies during the cell cycle and is highest during M phase. Autophosphorylated at Thr-288 upon TPX2 binding. Phosphorylated upon DNA damage, probably by ATM or ATR.
Ubiquitinated by CHFR, leading to its degradation by the proteasome (By similarity).
Ubiquitinated by the anaphase-promoting complex (APC), leading to its degradation by the proteasome.

细胞定位 Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > spindle pole. Detected at the neurite hillock in developing neurons (By similarity). Localizes on centrosomes in interphase cells and at each spindle pole in mitosis.

图片

Western blot - Anti-Aurora A antibody [35C1] (ab13824)

All lanes : Anti-Aurora A antibody [35C1] (ab13824) at 5 µg/ml

Lane 1 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 2 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

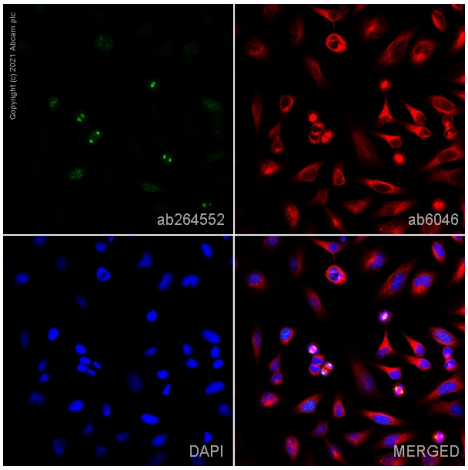
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 46 kDa
Observed band size: 50 kDa
Additional bands at: 125 kDa (possible non-specific binding), 55 kDa (possible non-specific binding)

Exposure time: 20 minutes

This blot was produced using 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200v for 50 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab13824 over night at 4°C. Antibody binding was detected using an anti-mouse antibody conjugated to HRP, and visualised using ECL development solution.

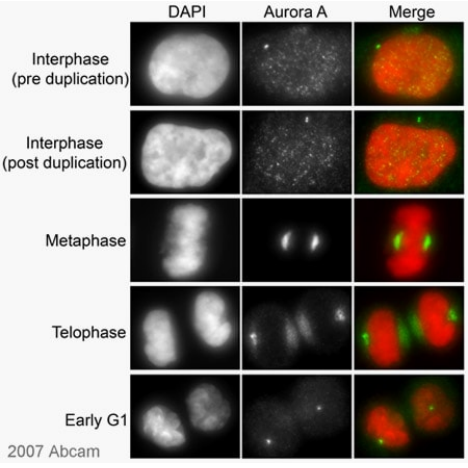


Immunocytochemistry/ Immunofluorescence - Anti-Aurora A antibody [35C1] (ab13824)

This data was developed using the same antibody clone in a different buffer formulation without PBS and sodium azide (**ab264552**)

ab264552 staining Aurora A in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with **ab264552** at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

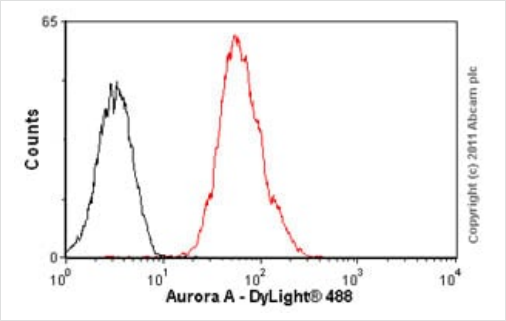
Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Immunocytochemistry/ Immunofluorescence - Anti-Aurora A antibody [35C1] (ab13824)

This image is courtesy of an Abreview submitted by Dr Kirk McManus

ab13824, at 1/2000 dilution, detecting Aurora A (green) in Hela Cells in conjunction with a Goat anti-mouse secondary antibody conjugated to Cy3®. Cells were fixed with methanol and counterstained with DAPI. Please refer to abreview for further details.



Flow Cytometry (Intracellular) - Anti-Aurora A antibody [35C1] (ab13824)

Overlay histogram showing HeLa cells stained with ab13824 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab13824, 2µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

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