Aurora A Rabbit mAb

Catalog No.: A29550

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Basic Information

Observed MW
48 kDa

Calculated MW
46 kDa

Category
Monoclonal Antibodies

Applications
WB, IF/ICC, ELISA

Cross Reactivity
Human

Clone No.
ARC4243

Background

The protein encoded by this gene is a cell cycle-regulated kinase that appears to be involved in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the same protein have been found for this gene.

Recommended Dilutions

WB	1:20000 - 1:200000
IF/ICC	1:1000 - 1:4000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
6790

Swiss-Prot
O14965

Immunogen
This information is considered to be commercially sensitive.

Synonyms
AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; PPP1R47

Contact

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Product Information

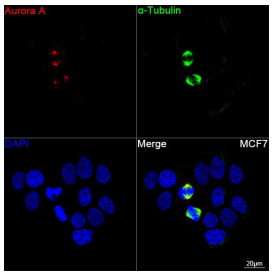
Source
Rabbit

Isotype
IgG

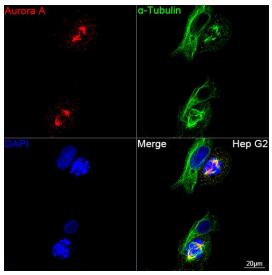
Purity
Affinity purification

Storage
Store at -20℃

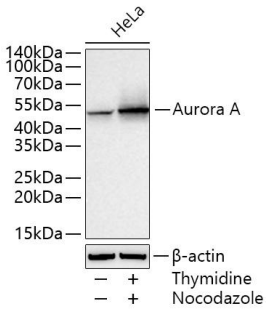
Validation Data



Confocal imaging of MCF7 cells using Aurora A Rabbit mAb (A29550, dilution 1: 4000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of Hep G2 cells using Aurora A Rabbit mAb (A29550, dilution 1: 4000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Western blot analysis of lysates from HeLa cells using Aurora A Rabbit mAb (A29550) at 1:50000 dilution incubated at room temperature for 1.5 hours. HeLa cells were treated with Thymidine (2 mM) at 37℃ for 16 hours and Nocadazole (100 ng/mL) at 37℃ for 24 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.