

Product datasheet for **TA336807**

Aurora A (AURKA) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Western Blot: 1 - 2 ug/ml, Immunocytochemistry/ Immunofluorescence: 2 ug/ml, Immunohistochemistry: 1:200, Immunohistochemistry-Paraffin: 1:200, Simple Western: 1:200
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A genomic peptide made to an N-terminal region of the human Aurora A protein (within residues 50-200). [Swiss-Prot O14965]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	aurora kinase A
Database Link:	NP_940835 Entrez Gene 20878 Mouse Entrez Gene 6790 Human O14965
Background:	Aurora A is a cytoplasmic serine/threonine kinase that is critical in transitioning cells through mitosis and meiosis. Aurka acts through phosphorylating several spindle and tubulin proteins. Without Aurka, axon and neuron formation are negatively impacted. When these critical cellular processes are disrupted, there is a potential for tumorigenesis, and thus Aurka is implicated in many cancers, particularly those of the blood. In studies of angiofibromas, both MDM1 and Aurka were amplified. Overall, cell proliferation seems proportional to the expression of Aurka.
Synonyms:	AIK; ARK1; AURA; BTAK; PPP1R47; STK6; STK7; STK15



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Note: This AURKA antibody is useful for Immunohistochemistry and Western blot, where a band is seen ~45 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

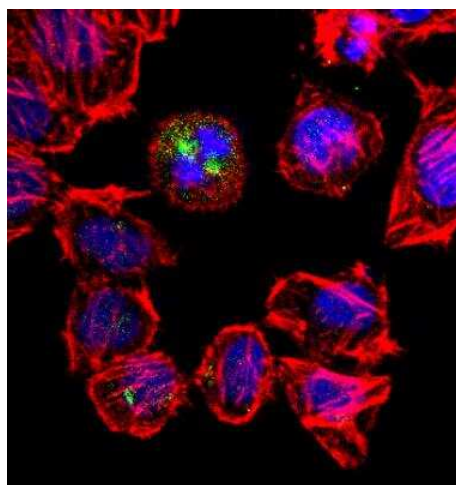
Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Protein Pathways: Oocyte meiosis

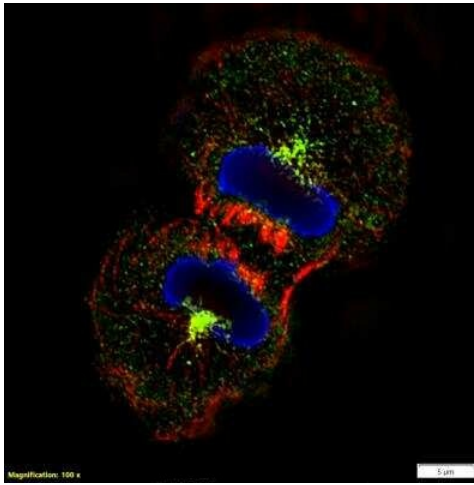
Product images:



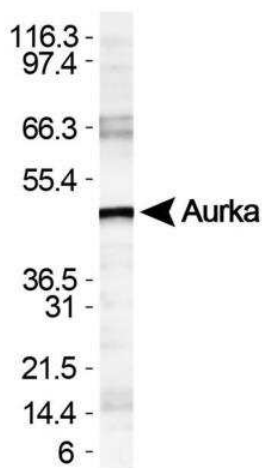
Simple Western: Aurora A Antibody TA336807 - Simple Western lane view shows a specific band for Aurora A in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



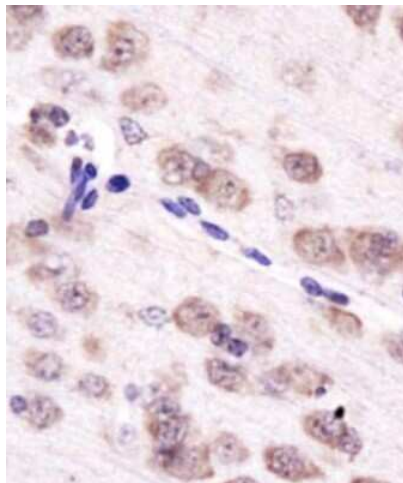
Immunocytochemistry/Immunofluorescence: Aurora A Antibody TA336807 - IF Confocal analysis of HeLa cells using Aurora A antibody (TA336807, 1:10). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).



Immunocytochemistry/Immunofluorescence: Aurora A Antibody TA336807 - HeLa cells were fixed and permeabilized for 10 minutes using -20C MeOH. The cells were incubated with anti-(TA336807) at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution overnight at 4C and detected with an anti-mouse Dylight 550 (Red) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Western Blot: Aurora A Antibody TA336807 - WB detection of Aurora A in HeLa whole cell lysate.



Immunohistochemistry: Aurora A Antibody TA336807 - IHC staining of Aurora A in mouse brain.