

Anti-Aurora A Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

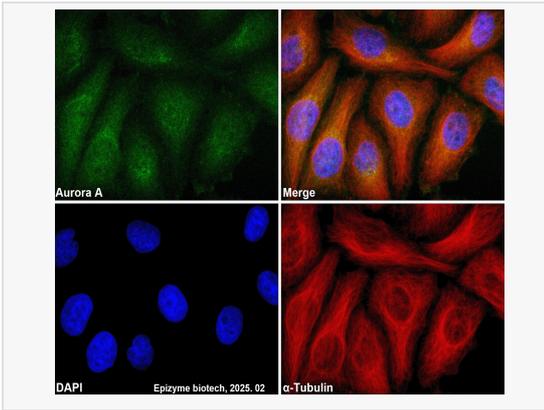
Catalog # R014837

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	76A68G82
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Aurora A
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Aurora A Rabbit mAb [76A68G82] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	AIK, ARK-1, ARK1, AURA, Aurka, Aurora 2, Aurora A, Aurora kinase A, Aurora-related kinase 1, Aurora/IPL1 like kinase, AURORA/IPL1-like kinase, Aurora/IPL1-related kinase 1, AURORA2, Breast tumor-amplified kinase, BTAK, hARK1, IAK, IPL1 related kinase, MGC34538, OTTHUMP00000031340, OTTHUMP00000031341, OTTHUMP00000031342, OTTHUMP00000031343, OTTHUMP00000031344, OTTHUMP00000031345, OTTHUMP00000166071, OTTHUMP00000166072, PPP1R47, Protein phosphatase 1, regulatory subunit 47, Serine/threonine kinase 15, Serine/threonine kinase 6, Serine/threonine protein kinase 15, Serine/threonine-protein kinase 15, Serine/threonine-protein kinase 6, Serine/threonine-protein kinase aurora-A, STK15, STK6, STK6_HUMAN, STK7.
Calculated MW	Calculated MW: 46 kDa; Observed MW: 46 kDa
Uniprot ID	O14965
Gene ID	6790
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. [provided by RefSeq, Jul 2008]
Cellular Location	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.



Immunofluorescence - Anti-Aurora A Rabbit mAb [76A68G82]

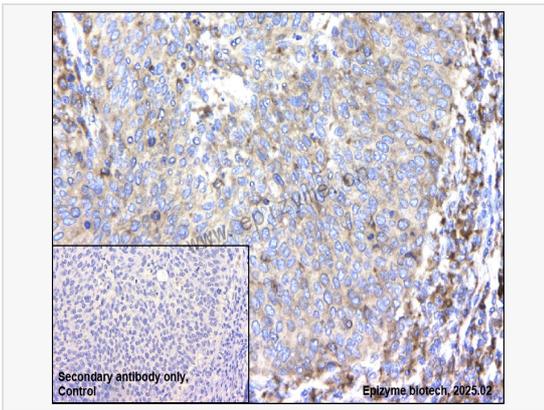
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014837 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Aurora A Rabbit mAb [76A68G82]

Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

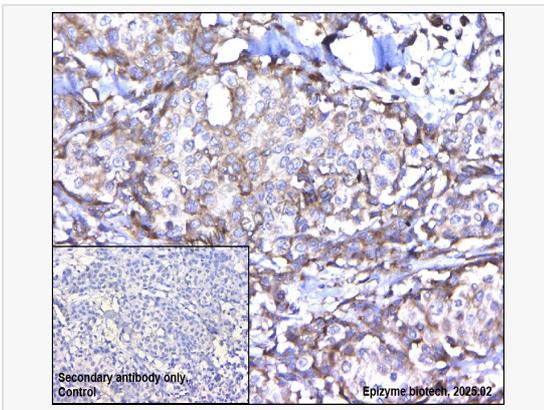
Primary antibody: R014837 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Aurora A Rabbit mAb [76A68G82]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

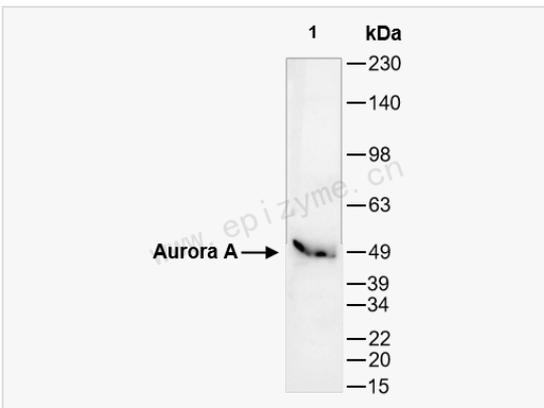
Primary antibody: R014837 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Western Blot - Anti-Aurora A Rabbit mAb [76A68G82]

All lanes: R014837 at 1:5,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 46 kDa

Observed band size: 46 kDa

Developed using the ECL technique (Cat. No. SQ201).