Product Name: ARK-1 Rabbit Polyclonal Antibody

Catalog #: APRab07138



Summary

Production Name ARK-1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Mouse, Rat, Monkey

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Immunogen

Gene Name AURKA

AURKA; AIK; AIRK1; ARK1; AURA; AYK1; BTAK; IAK1; STK15; STK6; Aurora kinase A;

Alternative Names Aurora 2; Aurora/IPL1-related kinase 1; ARK-1; Aurora-related kinase 1; hARK1; Breast

tumor-amplified kinase; Serine/threonine-protein kinase 15; Serine/threonin

Gene ID 6790.0

O14965.The antiserum was produced against synthesized peptide derived from human SwissProt ID

AurA. AA range:311-360

Application

Dilution Ratio WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:40000.Not

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yet tested in other applications.

Molecular Weight 45kDa

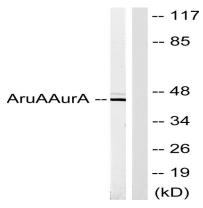
Background

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],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,caution:Although authors have considered STK6 and STK15 as two different proteins, it is clear that they are the same protein, disease: Defects in AURKA are responsible for numerical centrosome aberrations including aneuploidy, function: 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. May be involved in microtubule formation and/or stabilization. Phosphorylates ARHGEF2 and BORA.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily, similarity: Contains 1 protein kinase domain, subcellular location: Localizes on centrosomes in interphase cells and at each spindle pole in mitosis, subunit:Interacts with TACC1 and CPEB1. Interacts with its substrates BORA and ARHGEF2, tissue specificity: 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. Expression is cell-cycle regulated, low in G1/S, accumulates during G2/M, and decreases rapidly after.,

Research Area

Oocyte meiosis;

Image Data

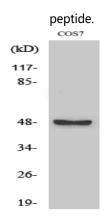


Western blot analysis of lysates from COS7 cells, using AurA Antibody. The lane on the right is blocked with the synthesized

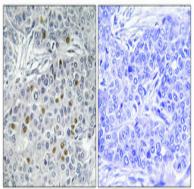
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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Western Blot analysis of various cells using ARK-1 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.