Product Name: ARK-2 (phospho Tyr12) Rabbit

Polyclonal Antibody Catalog #: APRab04260



Summary

Production Name ARK-2 (phospho Tyr12) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application ELISA,IHC,WB **Reactivity** Human,Mouse,Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

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

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name AURKB

AURKB; AIK2; AIM1; AIRK2; ARK2; STK1; STK12; STK5; Aurora kinase B; Aurora 1; Aurora-

Alternative Names and IPL1-like midbody-associated protein 1; AIM-1; Aurora/IPL1-related kinase 2; ARK-

2; Aurora-related kinase 2; STK-1; Serine/threonine-protein kinase 12

Gene ID 9212.0

Q96GD4.The antiserum was produced against synthesized peptide derived from SwissProt ID

human AurB around the phosphorylation site of Tyr12. AA range:1-50

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000...

Molecular Weight 39kD

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Background

This gene encodes a member of the aurora kinase subfamily of serine/threonine kinases. The genes encoding the other two members of this subfamily are located on chromosomes 19 and 20. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. A pseudogene of this gene is located on chromosome 8. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015], catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor: Magnesium., disease: Disruptive regulation of expression is a possibile mechanism of the perturbation of chromosomal integrity in cancer cells through its dominant-negative effect on cytokinesis., function: May be directly involved in regulating the cleavage of polar spindle microtubules and is a key regulator for the onset of cytokinesis during mitosis. Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Phosphorylates 'Ser-10' and 'Ser-28' of histone H3 during mitosis, similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Aurora subfamily, similarity: Contains 1 protein kinase domain, subcellular location: Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis. Colocalized with gamma tubulin in the mid-body,,subunit:Interacts with TACC1. Associates with RACGAP1 during M phase. Component of the CPC at least composed of BIRC5/survivin CDCA8/borealin, INCENP and AURKB/Aurora-B. Interacts with CDCA1 and NDC80. Interacts with EVI5., tissue specificity: High level expression seen in the thymus. It is also expressed in the spleen, lung, testis, colon, placenta and fetal liver. Expressed during S and G2/M phase and expression is up-regulated in cancer cells during M phase.,

Research Area

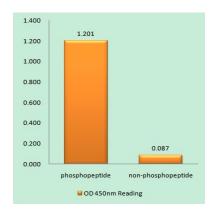
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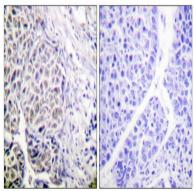
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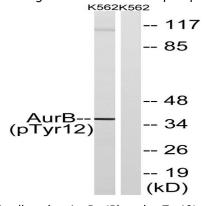




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AurB (Phospho-Tyr12) Antibody



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma, using AurB (Phospho-Tyr12) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells, using AurB (Phospho-Tyr12) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.