

产品名称: ARK-2 Rabbit Polyclonal Antibody
产品货号: AP Rab07139



产品概述 (Summary)

产品名称 (Production Name)	ARK-2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat,Monkey

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	AURKB AURKB; AIK2; AIM1; AIRK2; ARK2; STK1; STK12; STK5; Aurora kinase B; Aurora 1; Aurora- 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
别名 (Alternative Names)	
基因 ID (Gene ID)	9212.0
蛋白 ID (SwissProt ID)	Q96GD4.The antiserum was produced against synthesized peptide derived from human AurB. AA range:198-247

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
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蛋白分子量 (Molecular Weight) 39kDa

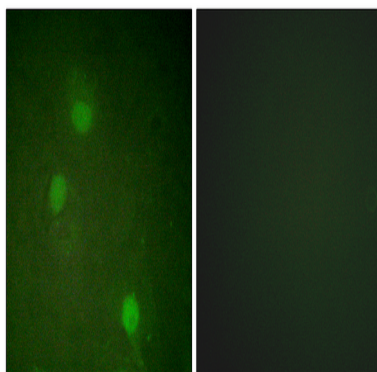
研究背景 (Background)

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 possible 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.,

研究领域 (Research Area)

Cell Biology

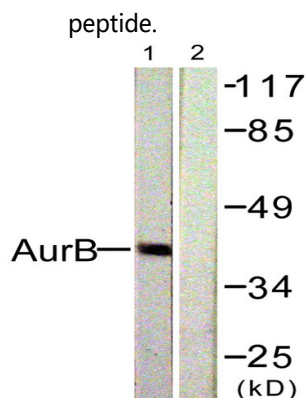
图片 (Image Data)



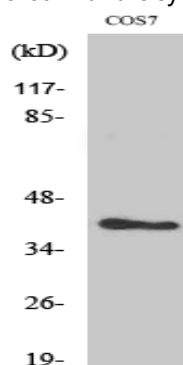
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Immunofluorescence analysis of HeLa cells, using AurB Antibody. The picture on the right is blocked with the synthesized



Western blot analysis of lysates from COS7 cells, treated with Nocodazole 1ug/ml 16h, using AurB Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using ARK-2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

注意事项 (Note)

For research use only .