



Aurora B Polyclonal Antibody

货号	YP-Ab-18367
同位型	IgG
应用	WB,IHC,IF,ELISA
种属	Human,Mouse,Rat,Monkey
别名	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
基因名称	AURKB
免疫原	The antiserum was produced against synthesized peptide derived from human AurB. AA range:198-247
特异性	ARK-2 Polyclonal Antibody detects endogenous levels of ARK-2 protein.
组成	ARK-2 Polyclonal Antibody detects endogenous levels of ARK-2 protein.
稀释	WB 1:500-1:2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:10000; Not yet tested in other applications.
纯化工艺	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
实测条带	39kD
分子量	39kD
背景	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
功能	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.,

细胞定位	Nucleus . Chromosome . Chromosome, centromere . Chromosome, centromere, kinetochore . Cytoplasm, cytoskeleton, spindle . Midbody . Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis (PubMed:20929775). Colocalized with gamma tubulin in the midbody (PubMed:17
浓度	1 mg/ml
储存	-15°C to -25°C/1 year(Do not lower than -25°C)
有关注意事项	Avoid repeated freezing and thawing!
使用建议	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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