

产品名称: Aurora A (8C5) Rabbit Monoclonal Antibody
产品货号: AMRe07374



产品概述 (Summary)

产品名称 (Production Name)	Aurora A (8C5) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,IP,IF-P
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
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)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	AURKA
别名 (Alternative Names)	AIK, ARK1, AYK1, Aurora-A, Aurora-related kinase 1, BTAK, IAK1, Ipl1- and aurora-related kinase 1, STK15, STK6, Serine/threonine kinase 15
基因 ID (Gene ID)	6790.0
蛋白 ID (SwissProt ID)	O14965.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:2000-1:20000,IHC 1:100-1:200,IP 1:50-1:100,IF-P 1:100-1:200
蛋白分子量 (Molecular Weight)	46kDa

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研究背景 (Background)

Mitotic serine/threonine kinases that contributes to the regulation of cell cycle progression. Associates with the centrosome and the spindle microtubules during mitosis and plays a critical role in various mitotic events including the establishment of mitotic spindle, centrosome duplication, centrosome separation as well as maturation, chromosomal alignment, spindle assembly checkpoint, and cytokinesis. Mitotic serine/threonine kinase that contributes to the regulation of cell cycle progression (PubMed: [26246606](http://www.uniprot.org/citations/26246606), PubMed: [12390251](http://www.uniprot.org/citations/12390251), PubMed: [18615013](http://www.uniprot.org/citations/18615013), PubMed: [11039908](http://www.uniprot.org/citations/11039908), PubMed: [17125279](http://www.uniprot.org/citations/17125279), PubMed: [17360485](http://www.uniprot.org/citations/17360485)). Associates with the centrosome and the spindle microtubules during mitosis and plays a critical role in various mitotic events including the establishment of mitotic spindle, centrosome duplication, centrosome separation as well as maturation, chromosomal alignment, spindle assembly checkpoint, and cytokinesis (PubMed: [26246606](http://www.uniprot.org/citations/26246606), PubMed: [14523000](http://www.uniprot.org/citations/14523000), PubMed: [27335426](http://www.uniprot.org/citations/27335426), PubMed: [13678582](http://www.uniprot.org/citations/13678582), PubMed: [15128871](http://www.uniprot.org/citations/15128871)). Phosphorylates numerous target proteins, including ARHGEF2, BORA, BRCA1, CDC25B, DLGP5, HDAC6, KIF2A, LATS2, NDEL1, PARD3, PPP1R2, PLK1, RASSF1, TACC3, p53/TP53 and TPX2 (PubMed: [18056443](http://www.uniprot.org/citations/18056443), PubMed: [15128871](http://www.uniprot.org/citations/15128871), PubMed: [14702041](http://www.uniprot.org/citations/14702041), PubMed: [11551964](http://www.uniprot.org/citations/11551964), PubMed: [15147269](http://www.uniprot.org/citations/15147269), PubMed: [15987997](http://www.uniprot.org/citations/15987997), PubMed: [17604723](http://www.uniprot.org/citations/17604723), PubMed: [18615013](http://www.uniprot.org/citations/18615013)). Regulates KIF2A tubulin depolymerase activity (PubMed: [19351716](http://www.uniprot.org/citations/19351716)). Important for microtubule formation and/or stabilization (PubMed: [18056443](http://www.uniprot.org/citations/18056443)). Required for normal axon formation (PubMed: [19812038](http://www.uniprot.org/citations/19812038)). Plays a role in microtubule remodeling during neurite extension (PubMed: [19668197](http://www.uniprot.org/citations/19668197)). Also acts as a key regulatory component of the p53/TP53 pathway, and particularly the checkpoint- response pathways critical for oncogenic

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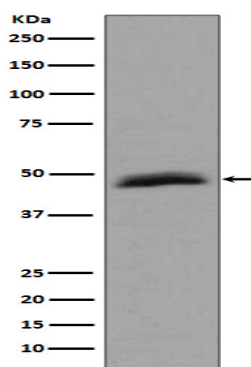


transformation of cells, by phosphorylating and destabilizing p53/TP53 (PubMed:14702041). Phosphorylates its own inhibitors, the protein phosphatase type 1 (PP1) isoforms, to inhibit their activity (PubMed:11551964). Necessary for proper cilia disassembly prior to mitosis (PubMed:17604723, PubMed:20643351). Regulates protein levels of the anti-apoptosis protein BIRC5 by suppressing the expression of the SCF(FBXL7) E3 ubiquitin-protein ligase substrate adapter FBXL7 through the phosphorylation of the transcription factor FOXP1 (PubMed:28218735).

研究领域 (Research Area)

Cell Biology

图片 (Image Data)



Western blot analysis of Aurora A expression in HepG2 cell lysate.

注意事项 (Note)

For research use only .