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anti-Aurora Kinase B antibody (AA 6-35)



Images



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Overview	
Quantity:	0.4 mL
Target:	Aurora Kinase B (AURKB)
Binding Specificity:	AA 6-35
Reactivity:	Human, Mouse, Rat, Primate
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aurora Kinase B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Immunogen:	A portion of amino acids 6-35 from the human protein was used as the immunogen for this
	Aurora B antibody.
Isotype:	Ig Fraction
Purification:	Purified
Target Details	
Target:	Aurora Kinase B (AURKB)
Alternative Name:	Aurora B (AURKB Products)
Background:	Serine/threonine-protein kinase 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. Involved in the bipolar attachment of spindle microtubules to kinetochores and is a key regulator for the onset of cytokinesis during mitosis. Required for central/midzone spindle assembly and cleavage furrow formation. Key component of the cytokinesis checkpoint, a process required to delay abscission to prevent both premature resolution of intercellular chromosome bridges and accumulation of DNA damage: phosphorylates CHMP4C, leading to retain abscissioncompetent VPS4 (VPS4A and/or VPS4B) at the midbody ring until abscission checkpoint signaling is terminated at late cytokinesis. AURKB phosphorylates the CPC complex subunits BIRC5/survivin, CDCA8/borealin and INCENP. Phosphorylation of INCENP leads to increased AURKB activity. Other known AURKB substrates involved in centromeric functions and mitosis are CENPA, DES/desmin, GPAF, KIF2C, NSUN2, RACGAP1, SEPT1, VIM/vimentin, GSG2/Haspin, and histone H3. A positive feedback loop involving GSG2 and AURKB contributes to localization of CPC to centromeres. Phosphorylation of VIM controls vimentin filament segregation in cytokinetic process, whereas histone H3 is phosphorylated at 'Ser-10' and 'Ser-28' during mitosis (H3S10ph and H3S28ph, respectively). A positive feedback between GSG2 and AURKB contributes to CPC localization. AURKB is also required for kinetochore localization of BUB1 and SGOL1. Phosphorylation of p53/TP53 negatively regulates its transcriptional activity. Key regulator of active promoters in resting B- and T-lymphocytes: acts by mediating phosphorylation of H3S28ph at active promoters in resting B-cells, inhibiting RNF2/RING1Bmediated ubiquitination of histone H2A and enhancing binding and activity of the USP16 deubiquitinase at transcribed genes. [UniProt]

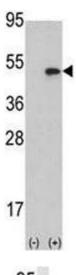
UniProt:	Q96GD4
Pathways:	TCR Signaling, Cell Division Cycle, Maintenance of Protein Location, Hepatitis C, Toll-Like
	Receptors Cascades
Application Dataila	

Application Details		
Application Notes:	Titration of the Aurora B antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide	

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the Aurora B antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

Images



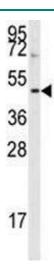
Western Blotting

Image 1. Western blot analysis of Aurora B antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AURKB gene (2). Predicted molecular weight: 39-45 kDa



Western Blotting

Image 2. Western blot analysis of Aurora B antibody and HepG2 lysate. Predicted molecular weight: 39-45 kDa



Western Blotting

Image 3. Western blot analysis of Aurora B antibody and HepG2 lysate. Predicted molecular weight: 39-45 kDa

Please check the product details page for more images. Overall 6 images are available for ABIN3030076.