

Datasheet for ABIN129612

anti-Aurora Kinase B antibody (Internal Region)



18

100 μg

Publications



Go to Product page

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Quantity:

Target:	Aurora Kinase B (AURKB)	
Binding Specificity:	Internal Region	
Reactivity:	Human, Monkey	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)	
Product Details		
Purpose:	AURORA KINASE B phospho T232 Antibody	
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region surrounding T232 of Human Aurora Kinase B protein. Immunogen Type: Conjugated Peptide	
Isotype:	IgG	
Cross-Reactivity (Details):	Anti-Phospho Aurora B pT232 affinity purified antibody is directed against the phosphorylated form of human Aurora Kinase B at the pT232 residue.	
Characteristics:	Synonyms: rabbit anti-Aurora B pT232 Antibody, Phospho Aurora B, AIK2 antibody, AIM1 antibody, ARK2 antibody, AurB antibody, AURKB antibody, Aurora 1 antibody, Aurora and IpI1 like midbody associated protein 1 antibody	
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.	

Product Details Sterility: Sterile filtered Target Details Target: Aurora Kinase B (AURKB) Alternative Name: AURKB (AURKB Products) Background: Background: Aurora Kinase B (Aurora-B) is a Ser/Thr protein kinase member of the Aurora subfamily that may be directly involved in regulating the cleavage of polar spindle microtubules and is a key regulator for the onset of cytokinesis during mitosis. Aurora Kinase B is localized to the midzone of central spindle in late anaphase and concentrated into the midbody in telophase and cytokinesis and is colocalized with gamma tubulin in the mid-body. High levels of Aurora B expression are seen in the thymus, although it is also expressed in the spleen, lung, testis,

TCR Signaling, Cell Division Cycle, Maintenance of Protein Location, Hepatitis C, Toll-Like

activities.

Q96GD4

9212, 83776600

Receptors Cascades

Application Details

Gene ID:

UniProt:

Pathways:

Application Notes: Immunohistochemistry Dilution: User Optimized

Application Note: Phospho pT232 Aurora B antibody has been tested for use in ELISA, immunohistochemistry, and by western blot. See below for specific protocol. Expect a

immunohistochemistry, and by western blot. See below for specific protocol. Expect a band approximately 39 kDa in size corresponding to Aurora Kinase B by western blotting in the appropriate cell lysate or extract. HeLa cell lysate can be used as a positive control.

colon, placenta and fetal liver. Aurora B is expressed during S and G2/M phase and expression

is up-regulated in cancer cells during M phase. Anti-AUROA B pT232 Antibody is useful for

researchers interested in gene expression, DNA damage, cytokinesis, and transcription

Western Blot Dilution: 1:250 - 1:2,000 ELISA Dilution: 1:10,000 - 1:30,000 IF Microscopy Dilution: User Optimized

Other: User Optimized

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1.21 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	4 °C,-20 °C
Storage Comment:	Store Phospho Specific Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Publications	

Publications

Product cited in:

Barroso-Vilares, Macedo, Reis, Warren, Compton, Logarinho: "Small-molecule inhibition of aging-associated chromosomal instability delays cellular senescence." in: **EMBO reports**, Vol. 21, Issue 5, pp. e49248, (2020) (PubMed).

Achuthankutty, Thakur, Haahr, Hoffmann, Drainas, Bizard, Weischenfeldt, Hickson, Mailand: "Regulation of ETAA1-mediated ATR activation couples DNA replication fidelity and genome stability." in: **The Journal of cell biology**, Vol. 218, Issue 12, pp. 3943-3953, (2020) (PubMed).

Novais-Cruz, Alba Abad, van IJcken, Galjart, Jeyaprakash, Maiato, Ferrás: "Mitotic progression, arrest, exit or death relies on centromere structural integrity, rather than de novo transcription." in: **eLife**, Vol. 7, (2019) (PubMed).

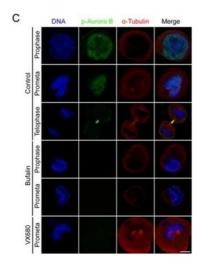
Liu, Kwon, Mannino, Yang, Renda, Khodjakov, Pellman: "Nuclear envelope assembly defects link mitotic errors to chromothripsis." in: **Nature**, Vol. 561, Issue 7724, pp. 551-555, (2019) (PubMed).

Xie, Lin, Wu, Tan, Cheng, Zhang: "Cardiac glycoside bufalin blocks cancer cell growth by

inhibition of Aurora A and Aurora B activation via PI3K-Akt pathway." in: **Oncotarget**, Vol. 9, Issue 17, pp. 13783-13795, (2018) (PubMed).

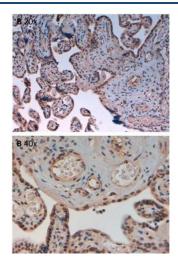
There are more publications referencing this product on: Product page

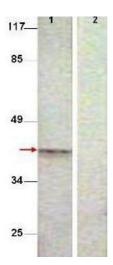
Images



Immunofluorescence (Cultured Cells)

Image 1. Bufalin prevents Aurora A recruitment to mitotic centrosomes and Aurora B recruitment to unattached kinetochores(A) HeLa cells were synchronized by a single thymidine treatment, released in the presence or absence of bufalin (100 nM) for 9 h, and stained for phospho-Aurora A (Green), α-tubulin (Red) and DNA (Blue). The scale bar represents 10 µm. (B) The phospho-Aurora A (Thr288) staining signals in (A) were normalized to the intensity in a same-size cytoplasmic region for at least five prometaphase cells per condition from three different experiments. ***p < 0.001, versus control prometaphase. Error bar represents SEM. (C) Thymidine-synchronized HeLa cells were treated with or without bufalin (100 nM) for 9 h and then stained for phospho-Aurora B (Green), α-tubulin (Red) and DNA (Blue). The scale bar represents 10 µm. (D) For quantification of the intensity of phospho-Aurora B (Thr232) in (C), more than 88 phospho-Aurora B (Thr232) staining signals from at least five prometaphase cells were analyzed each in control, bufalin (100 nM) and VX680 (0.5 µ M) arrest. ***p < 0.001, versus control prometaphase. Error bar represents SEM. - figure provided by CiteAb. Source: PMID29568394





Immunohistochemistry

Image 2. Immunohistochemistry of Rabbit Anti-AuroraB pT232 Antibody. Tissue: human placenta pH9 (A) at 20x and 40x. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: AuroraB pT232 antibody at 10 μg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: AuroraB pT232 is cytoplasmic. Staining: AuroraB pT232 as precipitated brown signal with hematoxylin purple nuclear counterstain.

Western Blotting

Image 3. Western Blot shows detection of Aurora B protein at 39 kDa (predicted band size). All lanes: Aurora B (phospho T232) antibody diluted 1:500. Lane 1: Extract from COS7 cells treated with Nocodazole (1ug/ml, 16 hrs). Lane 2: Extract from COS7 cells treated with Nocodazole (1ug/ml, 16 hrs) and with the phosphopeptide immunogen.

Please check the product details page for more images. Overall 4 images are available for ABIN129612.