

## Anti-Phospho-Aurora B pT232 Aurkb Antibody

Catalog Number: P00762

### About AURKB

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, 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 activities.

### Overview

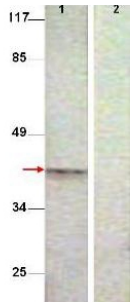
Product Name	Anti-Phospho-Aurora B pT232 Aurkb Antibody
Reactive Species	Human, Monkey
Description	Boster Bio Anti-Phospho-Aurora B pT232 Aurkb Antibody (Catalog # P00762). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Monkey.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q96GD4

### Technical Details

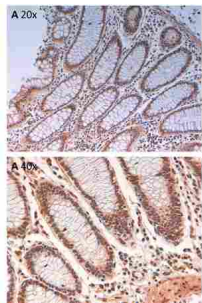
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region surrounding T232 of Human Aurora Kinase B protein.
Predicted Reactive Species	Pig, Rabbit
Isotype	IgG
Form	Liquid (sterile filtered)

Concentration	0.87 mg/mL by UV absorbance at 280 nm
Purification	<p>Anti-Phospho Aurora B pT232 affinity purified antibody is directed against the phosphorylated form of human Aurora Kinase B at the pT232 residue. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross-adsorbed against the non-phosphorylated form of the immunizing peptide. Reactivity occurs against human Aurora Kinase B pT232 protein and the antibody is specific for the phosphorylated form of the protein. Reactivity with non-phosphorylated human Aurora Kinase B is minimal by ELISA. No reaction is expected against Aurora Kinase A. However, 100% sequence homology as indicated by BLAST analysis is on record for this protein from human, mouse, rat, cow, pig, dog and chimpanzee. Cross-reactivity with Aurora Kinase B from other sources is not known.</p>
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:10,000 - 1:30,000</p> <p>IHC: User optimized</p> <p>IF Microscopy: User optimized</p> <p>WB: 1:250 - 1:2,000</p>

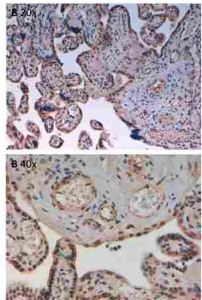
## Anti-Phospho-Aurora B pT232 Aurkb Antibody (P00762) Images



Western blot analysis of Aurora B expression in Extract from COS7 cells treated with Nocodazole (lane 1) and extract from COS7 cells treated with Nocodazole and with the phosphopeptide immunogen (lane 2). Aurora B at 39KD was detected using rabbit anti-Aurora B pT232 Antigen Affinity purified polyclonal antibody (Catalog # P00762) at 1:500. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).



AuroraB was detected in paraffin-embedded sections of human intestine pH9 (A) at 20x and 40x using rabbit anti-AuroraB pT232 Antigen Affinity purified polyclonal antibody (Catalog # P00762) at 10 ug/mL. Staining: AuroraB pT232 as precipitated brown signal with hematoxylin purple nuclear counterstain.



AuroraB was detected in paraffin-embedded sections of human placenta pH9 (A) at 20x and 40x using rabbit anti-AuroraB pT232 Antigen Affinity purified polyclonal antibody (Catalog # P00762) at 10 ug/mL. Staining: AuroraB pT232 as precipitated brown signal with hematoxylin purple nuclear counterstain.

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