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Anti-Aurora B/AURKB Antibody Picoband®

Catalog Number: PA1806

About Aurkb

AURKB (aurora kinase B) also called Aik2, AIM-1, ARK2, AurB, STK12, IPL1, PPP1R48 or STK5, localizes to microtubules near kinetochores, specifically to the specialized microtubules called K-fibers. Cell cycle and Northern blot analyses showed that STK12 is expressed in the S phase and persistently thereafter. Western blot analysis indicated that STK12 is localized in the midbodies during anaphase. Northern blot analysis detected strong expression of a 1.5-kb STK12 transcript in thymus, with weaker expression in small intestine, testis, colon, spleen, and brain. The AURKB gene is mapped on 17p13.1. Examination of the role of both kinases in the phosphorylation of CENPA revealed that the reaction is mediated sequentially by AURKA and AURKB in early mitosis. EB1 overexpression enhanced AURKB kinase activity, and knockdown of EB1 with small interfering RNA impaired AURKB activity. EB1 protected AURKB from dephosphorylation/inactivation by protein phosphatase-2A by blocking binding of PP2A to AURKB.

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Overview

Product Name	Anti-Aurora B/AURKB Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Aurora B/AURKB Antibody catalog # PA1806. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O70126

Technical Details

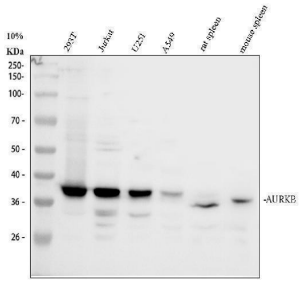
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antibody and ELISA experts

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Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Aurora B, different from the related rat sequence by two anino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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Anti-Aurora B/AURKB Antibody Picoband® (PA1806) Images



Western blot analysis of AURKB using anti-AURKB antibody (PA1806). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human U251 whole cell lysates, Lane 4: human A549 whole cell lysates, Lane 5: rat spleen tissue lysates, Lane 6: mouse spleen tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AURKB antigen affinity purified polyclonal antibody (PA1806) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for AURKB at approximately 39 kDa. The expected band size for AURKB is at 39 kDa.

Anti-Aurora B/AURKB Antibody

For Research Use Only. Not for use in diagnostic procedures.