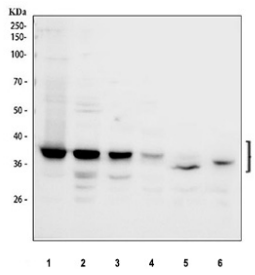
Aurora B Antibody / AURKB (R30904)

Catalog No.	Formulation	Size
R30904	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O70126
Applications	Western blot: 0.5-1ug/ml
Limitations	This Aurora B antibody is available for research use only.



Western blot testing of 1) human 293T, 2) human Jurkat, 3) human U-251, 4) human A549, 5) rat spleen and 6) mouse spleen tissue lysate with Aurora B antibody. Predicted molecular weight: 39-45 kDa.

Description

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 AURKB is expressed in the S phase and persistently thereafter. Western blot analysis indicated that it is localized in the midbodies during anaphase. Northern blot analysis detected strong expression of a 1.5-kb transcript in thymus, with weaker expression in small intestine, testis, colon, spleen, and brain. 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 Aurora B from dephosphorylation/inactivation by protein phosphatase-2A by blocking binding of PP2A.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Aurora B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of mouse AURKB (QNKQPFTIDNFEIGRP) was used as the immunogen for this Aurora B antibody.

Storage

After reconstitution, the Aurora B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

ARK, STK12

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