

Datasheet: AHP1261

Description:	RABBIT ANTI HUMAN AURORA-B KINASE
Specificity:	AURORA-B KINASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/2000 - 1/10000
Immunoprecipitation			▪	
Western Blotting	▪			1/250 - 1/1000
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with:Rat, Bovine, Mouse, Chimpanzee, Dog, Pig N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human Aurora-B kinase were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.2mg/ml
Immunogen	Synthetic peptide corresponding to amino acids 227-238 of human Aurora-B kinase.

**External Database
Links**

UniProt:

[Q96GD4](#) [Related reagents](#)

Entrez Gene:

[9212](#) AURKB [Related reagents](#)

Synonyms

AIK2, AIM1, ARK2, STK12

Specificity

Rabbit anti Human Aurora-B kinase antibody detects human Aurora-B kinase (AurB), a serine/threonine kinase which is the enzymatic core of the Chromosomal Passenger Complex (CPC). This complex functions in chromosome alignment and separation, histone modification, and cytokinesis. CPC also includes three non-enzymatic subunits known as the inner centromere protein (INCENP), survivin, and borealin, which determine the activity, localisation, stability, and possibly even the substrate specificity of AurB.

Two CPCs exist during mitosis- one containing all four members, and another consisting of INCENP and AurB. Quaternary CPC functions during chromosome alignment and cytokinesis, whereas the INCENP-AurB complex may be responsible for modifying histone H3.

AurB is overexpressed in a number of tumours, including primary breast and colon tumour samples. Its expression in tumours seems to be linked with Aurora-A kinase, suggesting a feedback mechanism between the two proteins.

Western Blotting

AHP1261 detects a band of approximately 39kDa in HeLa cell lysates.

Further Reading

1. Vader, G. *et al.* (2006) The chromosomal passenger complex: guiding Aurora-B through mitosis. [J Cell Biol. 173 \(6\): 833-7.](#)
2. Keen, N. & Taylor, S. (2004) Aurora-kinase inhibitors as anticancer agents. [Nat Rev Cancer. 4 \(12\): 927-36.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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