

## Datasheet: AHP1261

<b>Description:</b>	RABBIT ANTI HUMAN AURORA-B KINASE
<b>Specificity:</b>	AURORA-B KINASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with:Rat, Bovine, Mouse, Chimpanzee, Dog, Pig <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
<b>Product Form</b>	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.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.2mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids 227-238 of human Aurora-B kinase.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q96GD4</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">9212</a>    AURKB    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	AIK2, AIM1, ARK2, STK12
<b>RRID</b>	AB_877480
<b>Specificity</b>	<p><b>Rabbit anti Human Aurora-B kinase antibody</b> 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.</p> <p>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.</p> <p>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.</p>
<b>Western Blotting</b>	AHP1261 detects a band of approximately 39kDa in HeLa cell lysates.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>Vader, G. <i>et al.</i> (2006) The chromosomal passenger complex: guiding Aurora-B through mitosis. <a href="#">J Cell Biol. 173 (6): 833-7.</a></li> <li>Keen, N. &amp; Taylor, S. (2004) Aurora-kinase inhibitors as anticancer agents. <a href="#">Nat Rev Cancer. 4 (12): 927-36.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in</p>

frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1261">https://www.bio-rad-antibodies.com/SDS/AHP1261</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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