

## Datasheet: MCA2249B

<b>Description:</b>	MOUSE ANTI AURORA-A KINASE:Biotin
<b>Specificity:</b>	AURORA-A KINASE
<b>Other names:</b>	SERINE/THREONINE KINASE 15
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	35C1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.1 mg

## 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
Western Blotting	▪			
Immunofluorescence	▪			Neat - 1/10

Where this antibody 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 antibody for use in their own systems using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Recombinant Aurora-A
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">O14965</a> <a href="#">Related reagents</a>

**Entrez Gene:**[6790](#) AURKA [Related reagents](#)

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<b>Synonyms</b>	AIK, ARK1, AURA, BTAK, STK15, STK6
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<b>Fusion Partners</b>	Spleen cells from immunised Balb/c were fused with cells of the SP2/0-Ag14 mouse myeloma cell line
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<b>Specificity</b>	<p><b>Mouse anti Human Aurora -A kinase monoclonal antibody, clone 35C1</b> recognizes human Aurora-A kinase also known as Aurora 2, breast tumor-amplified kinase and serine/threonine-protein kinase 6 or 15. Aurora kinase A is member of the Ser/Thr protein kinase family containing a single <a href="#">protein kinase domain</a>, has a molecular weight of ~46kDa and is involved in mitotic spindle assembly (<a href="#">Ducat et al. 2004</a>).</p> <p>Aurora-A kinase is reported to be overexpressed in many epithelial cancers and is thought to play an important role in tumourigenesis (<a href="#">Katayama et al. 2003</a>). Aurora A kinase appears to facilitate phosphorylation of centrin and co-localizes with it at centrosomes with maximum expression through prophase to late metaphase (<a href="#">Lukasiewicz et al. 2011</a>).</p> <p>Mouse anti human Aurora-A kinase, clone 35C1 specifically recognizes an epitope within the non-catalytic N-terminal domain of Aurora-A. Clone 35C1 does not inhibit Aurora-A kinase activity (<a href="#">Cremet et al. 2003</a>).</p>
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<b>Histology Positive Control Tissue</b>	Human MCF7 and mouse LLC1 cell lines.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Cremet, J.Y. <i>et al.</i> (2003) Preparation and characterization of a human aurora-A kinase monoclonal antibody. <a href="#">Mol Cell Biochem. 243 (1-2): 123-31.</a></li><li>2. Hartsink-Segers SA <i>et al.</i> (2013) Inhibiting Polo-like kinase 1 causes growth reduction and apoptosis in pediatric acute lymphoblastic leukemia cells. <a href="#">Haematologica. 98 (10): 1539-46.</a></li><li>3. Hartsink-Segers, S.A. <i>et al.</i> (2013) Aurora kinases in childhood acute leukemia: the promise of aurora B as therapeutic target. <a href="#">Leukemia. 27: 560-8.</a></li><li>4. Lukasiewicz, K.B. <i>et al.</i> (2011) Control of centrin stability by Aurora A. <a href="#">PLoS One. 6: e21291.</a></li><li>5. Douglas, P. <i>et al.</i> (2015) Phosphorylation of SAF-A/hnRNP-U Serine 59 by Polo-Like Kinase 1 Is Required for Mitosis. <a href="#">Mol Cell Biol. 35 (15): 2699-713.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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**North & South America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751  
Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide** Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739  
Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)  
'M331121:180906'

**Europe** Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50  
Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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