

Datasheet: MCA2249B

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

	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.

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

Entrez Gene:

[6790](#) AURKA [Related reagents](#)

Synonyms	AIK, ARK1, AURA, BTAK, STK15, STK6
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Fusion Partners	Spleen cells from immunised Balb/c were fused with cells of the SP2/0-Ag14 mouse myeloma cell line
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Specificity	<p>Mouse anri Human Aurora -A kinase monoclonal antibody, clone 35C1 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 protein kinase domain, has a molecular weight of ~46kDa and is involved in mitotic spindle assembly (Ducat et al. 2004).</p> <p>Aurora-A kinase is reported to be overexpressed in many epithelial cancers and is thought to play an important role in tumourigenesis (Katayama et al. 2003). Aurora A kinase appears to facilitate phosphorylation of centrin and co-localizes with it at centrosomes with maximum expression through prophase to late metaphase (Lukasiewicz et al. 2011).</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 (Cremet et al. 2003).</p>
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Histology Positive Control Tissue	Human MCF7 and mouse LLC1 cell lines.
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References	<ol style="list-style-type: none">1. Cremet, J.Y. <i>et al.</i> (2003) Preparation and characterization of a human aurora-A kinase monoclonal antibody. Mol Cell Biochem. 243 (1-2): 123-31.2. Hartsink-Segers SA <i>et al.</i> (2013) Inhibiting Polo-like kinase 1 causes growth reduction and apoptosis in pediatric acute lymphoblastic leukemia cells. Haematologica. 98 (10): 1539-46.3. Hartsink-Segers, S.A. <i>et al.</i> (2013) Aurora kinases in childhood acute leukemia: the promise of aurora B as therapeutic target. Leukemia. 27: 560-8.4. Lukasiewicz, K.B. <i>et al.</i> (2011) Control of centrin stability by Aurora A. PLoS One. 6: e21291.5. Douglas, P. <i>et al.</i> (2015) Phosphorylation of SAF-A/hnRNP-U Serine 59 by Polo-Like Kinase 1 Is Required for Mitosis. Mol Cell Biol. 35 (15): 2699-713.
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Storage	<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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Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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