

Datasheet: MCA2249

BATCH NUMBER 171596

Description:	MOUSE ANTI AURORA-A KINASE
Specificity:	AURORA-A KINASE
Other names:	SERINE/THREONINE KINASE 15
Format:	Purified
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/500 - 1/1000
Immunofluorescence	▪			

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
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 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

RRID AB_567387

Fusion Partners Spleen cells from immunized Balb/c were fused with cells of the SP2/0-Ag14 mouse myeloma cell line

Specificity **Mouse anti 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](#)).

Aurora-A kinase is reported to be overexpressed in many epithelial cancers and is thought to play an important role in tumorigenesis ([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](#)).

Mouse anti human Aurora-A kinase, clone 35C1 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](#)).

Histology Positive Control Tissue

Human 293 and mouse LLC1 cell lines.

Western Blotting

Mouse anti aurora-A kinase antibody, clone 35C1 detects a band of approximately 46kDa in human HeLa and mouse M-ICc12 cell lysates.

References

1. Lukasiewicz, K.B. *et al.* (2011) Control of centrin stability by Aurora A. [PLoS One. 6: e21291.](#)
2. Hartsink-Segers, S.A. *et al.* (2013) Aurora kinases in childhood acute leukemia: the promise of aurora B as therapeutic target. [Leukemia. 27: 560-8.](#)
3. Hartsink-Segers SA *et al.* (2013) Inhibiting Polo-like kinase 1 causes growth reduction

and apoptosis in pediatric acute lymphoblastic leukemia cells. [Haematologica. 98 \(10\): 1539-46.](#)

4. Douglas, P. *et al.* (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.](#)

5. Douglas, P. *et al.* (2020) Nocodazole-Induced Expression and Phosphorylation of Anillin and Other Mitotic Proteins Are Decreased in DNA-Dependent Protein Kinase Catalytic Subunit-Deficient Cells and Rescued by Inhibition of the Anaphase-Promoting Complex/Cyclosome with proTAME but Not Apcin. [Mol Cell Biol. 40 \(13\): e00191-19.](#)

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2249>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M413549:221123'

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