Datasheet: MCA2249

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

RRID: AB_567387

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<td>1/500 - 1/1000</td>
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<tr>
<td>Immunofluorescence</td>
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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 - 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

Carrier Free

Yes
Approx. Protein Concentrations
IgG concentration 1.0 mg/ml

Immunogen
Recombinant Aurora-A

External Database Links
UniProt: O14965

Entrez Gene: 6790 AURKA

Synonyms
AIK, ARK1, AURA, BTAK, STK15, STK6

Fusion Partners
Spleen cells from immunised 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
MCA2249 detects a band of approximately 46kDa in human HeLa and mouse M-Icc12 cell lysates.

References

Storage
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

<table>
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<tr>
<th>Guarantee</th>
<th>18 months from date of despatch.</th>
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<tr>
<td>Regulatory</td>
<td>For research purposes only</td>
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**Related Products**

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos.,** **HRP**  
Goat Anti Mouse IgG (STAR77...) **HRP**  
Rabbit Anti Mouse IgG (STAR12...) **RPE**  
Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**  
Rabbit Anti Mouse IgG (STAR13...) **HRP**  
Goat Anti Mouse IgG (STAR76...) **RPE**  
Goat Anti Mouse IgG (STAR70...) **FITC**  
Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**  
Rabbit Anti Mouse IgG (STAR9...) **FITC**  
Human Anti Mouse IgG2b (HCA038...) **FITC**  
Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP**

**Recommended Negative Controls**

**MOUSE IgG2b NEGATIVE CONTROL (MCA691)**