

## Datasheet: MCA1993

<b>Description:</b>	MOUSE ANTI HUMAN Cdk7
<b>Specificity:</b>	Cdk7
<b>Other names:</b>	CYCLIN-DEPENDENT KINASE 7
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MO-1
<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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1ug/ml - 10ug/ml

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 system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A/G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.08% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	221 amino acid recombinant fragment of Cdk7 C terminus
<b>External Database Links</b>	<b>UniProt:</b>

[P50613](#)   [Related reagents](#)

**Entrez Gene:**

[1022](#)   CDK7   [Related reagents](#)

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<b>Synonyms</b>	MO15
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<b>Specificity</b>	<p><b>Mouse anti Human Cdk7 antibody, clone MO-1</b> recognizes human Cyclin-dependent kinase 7, also known as 39kDa protein kinase, Cell division protein kinase 7, Serine/threonine-protein kinase 1 and TFIIH basal transcription factor complex kinase subunit. Cdk7 is a 346 amino acid member of the <a href="#">CDC2/CDKX</a> subfamily of serine/threonine family of protein kinases. Cdk7, as part of the <a href="#">CAK complex</a> is involved with the transcription factor TFIIH and is thought to be involved in the control of cell cycle progression, DNA repair and RNA polymerase II (pol II) transcription.</p> <p>Cdk7 demonstrates ubiquitous nuclear expression in normal tissues and is expressed in cancer tissues (<a href="#">Bartkova et al. 1996</a>).</p>
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<b>Histology Positive Control Tissue</b>	HeLa cells fixed with acetone/methanol
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<b>References</b>	<ol style="list-style-type: none"><li>1. Tassan, J.P. <i>et al.</i> (1994) Cell cycle analysis of the activity, subcellular localization, and subunit composition of human CAK (CDK-activating kinase). <a href="#">J Cell Biol. 127 (2): 467-78.</a></li><li>2. Syljuåsen, R.G. <i>et al.</i> (2006) Adaptation to the ionizing radiation-induced G2 checkpoint occurs in human cells and depends on checkpoint kinase 1 and Polo-like kinase 1 kinases. <a href="#">Cancer Res. 66: 10253-7.</a></li><li>3. Falck, J. <i>et al.</i> (2001) Functional impact of concomitant versus alternative defects in the Chk2-p53 tumour suppressor pathway. <a href="#">Oncogene. 20: 5503-10.</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 #10040 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

HuCAL Anti Mouse IgG2b (HCA038...)   [FITC](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...)   [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...)   [HRP](#)  
Goat Anti Mouse IgG (STAR70...)   [FITC](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),  
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

<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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