

## Datasheet: VMA00023

<b>Description:</b>	MOUSE ANTI CDK7
<b>Specificity:</b>	CDK7
<b>Other names:</b>	Cyclin-Dependent Kinase 7, MO15
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	MO-1.1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 µl

## 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	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein A/G from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ).

<b>Immunogen</b>	Recombinant fragment of cdk7 corresponding to a 221 amino acid sequence from the C-terminus
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P50613</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1022</a>    CDK7    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MO15
<b>Specificity</b>	<p><b>Mouse anti Human cdk7 antibody, clone MO-1.1</b> recognizes human cyclin-dependent kinase 7, also known as 39 kDa protein kinase, cell division protein kinase 7, serine/threonine-protein kinase 1 and TFIIF basal transcription factor complex kinase subunit.</p> <p>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 TFIIF and is thought to be involved in the control of cell cycle progression, DNA repair and RNA polymerase II (pol II) transcription. Cdk7 demonstrates ubiquitous nuclear expression in normal tissues and is expressed in cancer tissues (<a href="#">Bartkova et al. 1996</a>).</p> <p>Mouse anti Human cdk7 recognizes human cyclin-dependent kinase 7 as a single band of ~39 kDa in multiple human cell lysates by western blotting under reducing conditions.</p>
<b>Western Blotting</b>	Anti cdk7 antibody detects a band of approximately 39 kDa in HeLa cell lysates.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Aagaard, L. <i>et al.</i> (1995) Aberrations of p16Ink4 and retinoblastoma tumour-suppressor genes occur in distinct sub-sets of human cancer cell lines. <a href="#">Int J Cancer. 61 (1): 115-20.</a></li> <li>2. 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 (39): 5503-10.</a></li> <li>3. 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 (21): 10253-7.</a></li> </ol>
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00023">https://www.bio-rad-antibodies.com/SDS/VMA00023</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only.

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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