

## Datasheet: VMA00023KT

<b>Description:</b>	CDK7 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	CDK7
<b>Other names:</b>	Cyclin-Dependent Kinase 7
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	2 Westerns

## 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
Western Blotting	▪			1/1000

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. 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 dependant on sample type.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	20µl 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>	<b>UniProt:</b>

**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</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>
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<b>Western Blotting</b>	Anti cdk7 antibody detects a band of approximately 39 kDa in HeLa cell lysates.
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<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
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<b>Lysate Composition</b>	400µg HeLa lysate lyophilized in RIPA buffer.
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<b>Lysate Reconstitution</b>	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
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<b>Storage</b>	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
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<b>Guarantee</b>	As supplied, 12 months from date of despatch.
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<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a>
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## 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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