

Datasheet: VMA00023

Description:	MOUSE ANTI CDK7
Specificity:	CDK7
Other names:	Cyclin-Dependent Kinase 7, MO15
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	MO-1.1
Isotype:	IgG2b
Quantity:	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.

	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.

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

Stabilisers

Immunogen Recombinant fragment of cdk7 corresponding to a 221 amino acid sequence from the C-terminus

External Database

Links

UniProt:

[P50613](#) [Related reagents](#)

Entrez Gene:

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

Synonyms MO15

Specificity

Mouse anti Human cdk7 antibody, clone MO-1.1 recognizes human cyclin-dependent kinase 7, also known as 39 kDa 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 [CDC2/CDKX](#) subfamily of serine/threonine family of protein kinases. Cdk7, as part of the [CAK complex](#) 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. Cdk7 demonstrates ubiquitous nuclear expression in normal tissues and is expressed in cancer tissues ([Bartkova *et al.* 1996](#)).

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.

Western Blotting

Anti cdk7 antibody detects a band of approximately 39 kDa in HeLa cell lysates.

References

1. Aagaard, L. *et al.* (1995) Aberrations of p16Ink4 and retinoblastoma tumour-suppressor genes occur in distinct sub-sets of human cancer cell lines. [Int J Cancer. 61 \(1\): 115-20.](#)
 2. Falck, J. *et al.* (2001) Functional impact of concomitant versus alternative defects in the Chk2-p53 tumour suppressor pathway. [Oncogene. 20 \(39\): 5503-10.](#)
 3. Syljuåsen, R.G. *et al.* (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. [Cancer Res. 66 \(21\): 10253-7.](#)
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Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

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

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