

Datasheet: VMA00874

BATCH NUMBER 164219

Description:	MOUSE ANTI CDK12
Specificity:	CDK12
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	45F7-H2
Isotype:	IgG1
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
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 affinity purified on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	A peptide corresponding to amino acid 479-508 of CDK12

**External Database
Links**

UniProt:

[Q9NYV4](#) [Related reagents](#)

Entrez Gene:

[51755](#) CDK12 [Related reagents](#)

Synonyms

CRK7, CRKRS, KIAA0904

Specificity

Mouse anti Human CDK12 antibody recognizes cyclin-dependent kinase 12 (CDK12), otherwise known as CrkRS and CRK7

CDK12 is a member of the CDK family of serine/threonine protein kinases which can be divided into two groups, those that regulate the cell cycle and those that regulate transcription ([Paculová and Kohoutek 2017](#)). CDK12 is a regulator of transcription, and can upregulate the expression of genes involved with responses to DNA damage, stress, and heat shock ([Lui et al. 2018](#)). CDK proteins bind to cyclin subunits to activate their functions. CDK12, like CDK13, forms a complex with cyclin K to regulate several cellular processes ([Kohoutek and Blazek 2012](#)). Genomic alterations in CDK12 have been identified with a frequency of 5 to 15% in various cancer types including esophageal, stomach, breast, endometrial, uterine, ovarian, bladder, colorectal, and pancreatic cancers. CDK12 inhibition has been suggested as a target to slow cancer growth ([Lui et al. 2018](#)).

Western Blotting

Mouse anti CDK12 detects a band of approximately 203 kDa in HEK293 cell lysates

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:
<https://www.bio-rad-antibodies.com/SDS/VMA00874>
10040

Regulatory

For research purposes only

**North & South
America** Tel: +1 800 265 7376
Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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

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Printed on 10 Apr 2024