

## Datasheet: VMA00874

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

**External Database  
Links**

**UniProt:**

[Q9NYV4](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

CRK7, CRKRS, KIAA0904

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**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](#)).

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**Western Blotting**

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

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**Storage**

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

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00874>  
10040

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**North & South**   Tel: +1 800 265 7376

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Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Email: [antibody\\_sales\\_de@bio-rad.com](mailto: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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