

## Datasheet: VMA00018

|                      |                                    |
|----------------------|------------------------------------|
| <b>Description:</b>  | MOUSE ANTI PCNA                    |
| <b>Specificity:</b>  | PCNA                               |
| <b>Other names:</b>  | Proliferating Cell Nuclear Antigen |
| <b>Format:</b>       | Purified                           |
| <b>Product Type:</b> | PrecisionAb™ Monoclonal            |
| <b>Isotype:</b>      | IgG2a                              |
| <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             |

**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>Species Cross Reactivity</b> | Reacts with: African green monkey , Rat, Mouse<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species.                                                   |
| <b>Product Form</b>             | Purified IgG - liquid                                                                                                                                                                |
| <b>Preparation</b>              | Mouse monoclonal antibody purified by affinity chromatography on Protein 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>                | Rat PCNA made in the Protein A expression vector pR1T2T                                                                                                                              |
| <b>External Database Links</b>  | <p><b>UniProt:</b><br/> <a href="#">P12004</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">5111</a>   PCNA   <a href="#">Related reagents</a></p> |

**Specificity** **Mouse anti PCNA antibody** recognizes the proliferating cell nuclear antigen, also known as PCNA or cyclin. PCNA is a 261 amino acid nuclear protein vital for cellular DNA synthesis at the replication fork ([Li et al. 1995](#)) through its interaction with FEN1 ([Wu et al. 1996](#)). PCNA is the auxiliary protein for DNA polymerase  $\delta$  ([Bravo et al. 1987](#)).

PCNA is highly conserved between mammalian species and other vertebrates and this antibody has been shown to detect PCNA in a number of species including rat, mouse and African green monkey

Mouse anti PCNA antibody recognizes proliferating cell nuclear antigen as a single band of ~29 kDa in multiple human cell line lysates by western blotting under reducing conditions.

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**Western Blotting** Anti PCNA antibody detects a band of approximately 29 kDa in HeLa cell lysates.

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**Instructions For Use** Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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

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**Shelf Life** As supplied, 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: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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

**America** Fax: +1 919 878 3751

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

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