

## Datasheet: VMA00016

<b>Description:</b>	MOUSE ANTI POLY (ADP-RIBOSE) POLYMERASE 1
<b>Specificity:</b>	POLY (ADP-RIBOSE) POLYMERASE 1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	A6.4.12
<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
Immunoprecipitation	▪			
Western Blotting	▪			1/1000
Immunofluorescence	▪			

**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>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline.

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ).
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Human PARP-1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P09874</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">142</a>    PARP1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ADPRT, PPOL
<b>Specificity</b>	<p><b>Mouse anti Human poly (ADP-ribose) polymerase 1 antibody</b> recognizes poly (ADP-ribose) polymerase 1 (PARP-1), a nuclear enzyme cleaved during apoptosis (<a href="#">Soldani et al. 2002</a>).</p> <p>PARP-1 is a caretaker enzyme involved in DNA damage repair (<a href="#">Langelier et al. 2013</a>). It plays roles in diabetes pathophysiology (<a href="#">Andreone et al. 2012</a>) and tumor proliferation (<a href="#">Rosado et al 2013</a>). As well as protecting cells from genomic instability, PARP-1 is also involved in the development of both inflammatory and immune responses, and cell death by apoptosis and necrosis (<a href="#">Erdélyi et al. 2005</a>).</p> <p>PARP-1 represents a promising target for new developments in therapeutic treatment of immune mediated diseases (<a href="#">Rosado et al. 2013</a>) and has considerable potential for delivering selective tumor cell killing while sparing normal cells (<a href="#">Pinton et al. 2013</a>).</p> <p>Mouse anti Human poly (ADP-ribose) polymerase 1 antibody recognizes PARP-1 as a single band of ~116 kDa in western blotting in multiple cell line lysates including myeloid, lymphoid, neuronal, adenocarcinoma, sarcoma and embryonic kidney.</p>
<b>Western Blotting</b>	Anti Poly (ADP-Ribose) Polymerase 1 antibody detects a band of approximately 116 kDa in HEK293 cell lysates.
<b>Storage</b>	<p>This product is shipped at ambient temperature.</p> <p>Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p>
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00016">https://www.bio-rad-antibodies.com/SDS/VMA00016</a></p> <p>Antibody (10040)</p>

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

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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](https://bio-rad-antibodies.com/datasheets)

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