

Datasheet: VMA00016KT

Description:	POLY (ADP-RIBOSE) POLYMERASE 1 ANTIBODY WITH CONTROL LYSATE
Specificity:	POLY (ADP-RIBOSE) POLYMERASE 1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	IgG1
Quantity:	2 Westerns

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

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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Human PARP-1
External Database Links	<p>UniProt: P09874 Related reagents</p> <p>Entrez Gene: 142 PARP1 Related reagents</p>
Synonyms	ADPRT, PPOL

Specificity	<p>Mouse anti Human poly (ADP-ribose) polymerase 1 antibody recognizes poly (ADP-ribose) polymerase 1 (PARP-1), a nuclear enzyme cleaved during apoptosis (Soldani et al. 2002).</p> <p>PARP-1 is a caretaker enzyme involved in DNA damage repair (Langelier et al. 2013). It plays roles in diabetes pathophysiology (Andreone et al. 2012) and tumor proliferation (Rosado et al. 2013). 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 (Erdélyi et al. 2005).</p> <p>PARP-1 represents a promising target for new developments in therapeutic treatment of immune mediated diseases (Rosado et al. 2013) and has considerable potential for delivering selective tumor cell killing while sparing normal cells (Pinton et al. 2013).</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>
Western Blotting	Anti Poly (ADP-Ribose) Polymerase 1 antibody detects a band of approximately 116 kDa in HEK293 cell lysates.
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.
Lysate Composition	400µg HEK293 lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
Shelf Life	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 #10561 available at:</p> <p>Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p> <p>Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</p>
Regulatory	For research purposes only

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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