

Datasheet: MCA1522G

BATCH NUMBER 156107

Description:	MOUSE ANTI POLY(ADP-RIBOSE) POLYMERASE-1
Specificity:	POLY(ADP-RIBOSE) POLYMERASE-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	A6.4.12
Isotype:	IgG1
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/1000 - 1/5000
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) Clone A6.4.12 requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Hamster, Mouse, Drosophila, Xenopus, Rat

N.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.

Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human PARP-1
External Database Links	<p>UniProt: P09874 Related reagents</p> <p>Entrez Gene: 142 PARP1 Related reagents</p>
Synonyms	ADPRT, PPOL
RRID	AB_2236751
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of mouse NS0 myeloma cell line.
Specificity	<p>Mouse anti poly (ADP-ribose) polymerase 1 antibody, clone A6.4.12 recognizes poly (ADP-ribose) polymerase 1 (PARP-1), a ~116 kDa nuclear enzyme, cleaved during apoptosis (Soldani et al. 2002).</p> <p>PARP-1, a caretaker enzyme, is involved in DNA damage repair (Langelier et al. 2013), plays roles in diabetes pathophysiology (Andreone et al. 2012) and tumour proliferation (Rosado et al 2013.).</p> <p>As well as protecting cells from genomic instability, PARP-1 is involved in the development of both inflammatory and immune responses, and cell death by apoptosis and necrosis (Erdélyi et al. 2005).</p> <p>Mouse anti poly(ADP-ribose) polymerase 1 antibody, clone A6.4.12, targets PARP-1, an enzyme which represents a promising target for new developments in therapeutic treatment of immune mediated diseases (Rosado et al. 2013). PARP-1 has considerable potential for delivering selective tumour cell killing while sparing normal cells (Pinton et al. 2013).</p>

References

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Further Reading	<ol style="list-style-type: none">1. Pinton, G. <i>et al.</i> (2013) PARP1 inhibition affects pleural mesothelioma cell viability and uncouples AKT/mTOR axis via SIRT1. J Cell Mol Med. 17: 233-41.2. Rosado, M. <i>et al.</i> (2013) Beyond dna repair,the immunological role of parp-1 and its siblings. Immunology. 139: 428-37.3. Andreone, T. <i>et al.</i> (2012) Cytokine-mediatedβ-cell damage in PARP-1-deficient islets. Am J Physiol Endocrinol Metab. 303: E172-9.4. Langelier, M.F. and Pascal, J.M. (2013) PARP-1 mechanism for coupling DNA damage detection to poly(ADP-ribose) synthesis. Curr Opin Struct Biol. 23: 134-43.
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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1522G>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

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Printed on 20 Mar 2025

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