

## PARP-1 monoclonal antibody (F1-23)

ALX-804-211

### Product Number/Sizes

ALX-804-211-R050 50 µl

Replaces Prod. #: **BML-SA251**

### Product Specifications

ALTERNATIVE NAME:	Poly(ADP-ribose) polymerase-1
CLONE:	F1-23
HOST:	Mouse
ISOTYPE:	IgG1
IMMUNOGEN:	Purified bovine PARP-1 (poly(ADP-ribose) polymerase-1).
UNIPROT ID:	P18493
SPECIES REACTIVITY:	Human Bovine
SPECIFICITY:	Recognizes an epitope in the zinc finger II DNA binding domain of PARP-1.
CROSSREACTIVITY:	Does not cross-react with mouse or rat PARP-1.
APPLICATIONS:	ELISA, ICC, IP, WB, FUNC ChIP
RECOMMENDED DILUTIONS/CONDITIONS:	<u>ELISA</u> : >1:200,000. Dilution buffer: PBS, pH 7.4, 1% non fat dried milk, 0.05% Tween 20. Detectable antigen range: 50ng of PARP-1 <u>Immunocytochemistry</u> : 1:500. Dilution buffer: 50mM TRIS, pH 7.5, 150mM NaCl, 5% milk. <u>Immunoprecipitation</u> : 1:50. Dilution buffer: RiPA buffer Protein G-Sepharose™ <u>Western Blot</u> : 1:5,000. Dilution buffer: PBS, pH 7.4, 5% non fat dried milk, 0.1% Tween 20. See also separate Western blot protocol. Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.
APPLICATION NOTES:	Detects bands of ~116kDa (intact PARP-1) and ~24kDa (apoptosis-induced cleavage fragment) by Western blot. Functional Application: neutralizes the biological activity of PARP (~80%).
FORMULATION:	Liquid. Ascites fluid containing 0.02% sodium azide.
HANDLING:	Avoid freeze/thaw cycles. For long-term storage, aliquot into individual tubes and refreeze at -80°C.
SHIPPING:	Shipped on Blue Ice
LONG TERM STORAGE:	-80°C
TECHNICAL INFO/PRODUCT NOTES:	SEPHAROSE is a trademark of GE Healthcare companies.
REGULATORY STATUS:	RUO - Research Use Only

### Product Literature References

- DNA-dependent SUMO modification of PARP-1* N. Zilio, et al. DNA Repair (Amst) **12** 761 (2013)
- The histone variant mH2A1.1 interferes with transcription by down-regulating PARP-1 enzymatic activity* K. Ouararhni, et al. Genes Dev. **20** 3324 (2006)
- PARP-3 localizes preferentially to the daughter centriole and interferes with the G1/S cell cycle progression* A. Augustin, et al. J. Cell Sci. **116** 1551 (2003)
- Characterization of anti-peptide antibodies directed towards the automodification domain and apoptotic fragment of poly (ADP-ribose) polymerase* P.J. Duriez, et al. Biochim. Biophys. Acta **1334** 65 (1997)
- FADD/MORT1 is a common mediator of CD95 (Fas/APO-1) and tumor necrosis factor receptor-induced apoptosis* A.M. Chinnaiyan, et al. J. Biol. Chem. **271** 4961 (1996)
- Studies of the lamin proteinase reveal multiple parallel biochemical pathways during apoptotic execution* Y.A. Lazebnik, et al. PNAS **92** 9042 (1995)

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*Cleavage of poly(ADP-ribose) polymerase by a proteinase with properties like ICE* Y.A. Lazebnik, et al. Nature **371** 346 (1994)

*Specific proteolytic cleavage of poly(ADP-ribose) polymerase: an early marker of chemotherapy-induced apoptosis* S.H. Kaufmann, et al. Cancer Res. **53** 3976 (1993)

*Structural and functional analysis of poly(ADP ribose) polymerase: an immunological study* D. Lamarre, et al. Biochim. Biophys. Acta **950** 147 (1988)

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