

## Product Information

Contents: Affinity Purified anti-PARP (Poly-ADP-Ribose-Polymerase-1)  
Catalog Number: 14-6666  
Sizes: 50 ul  
Formulation: PBS (pH 7.4), Non-fat dried milk: 5%, 0.1%Tween 20, 0.02% NaN<sub>3</sub>.  
Storage Conditions: Store at 4°C.  
Avoid repeated freeze/thaw cycles.  
Clone: C2-10  
Isotype: Mouse IgG1

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-6666	Monoclonal anti-PARP (Poly-ADP-Ribose-Polymerase-1)	N/A	N/A	ELISA IHC IP WB

## Description

The C2-10 antibody reacts with mouse and human PARP; the antibody was generated against bovine PARP (Poly-ADP-ribose Polymerase-1). PARP is a 116 kDa nuclear chromatin-associated enzyme that catalyzes the transfer of ADP-ribose units from NAD<sup>+</sup> to nuclear proteins such as topoisomerases, histones, and PARP. Following DNA damage, catalytic activity of PARP is increased in nonapoptotic cells. It has been suggested that PARP plays an important role in mediating normal cellular response to DNA damage. PARP is also a target of the protease activity of caspases involved in apoptosis. C2-10 detects both the full-length (116 kDa) and the cleaved (85 kDa) forms of PARP.

## Usage

For research use only, not for diagnostic or therapeutic use. The C2-10 antibody can be used for the detection of mouse, human, rat, monkey, bovine and hamster PARP using immunoprecipitation, immunoblotting (WB), immunohisto(cyto)chemistry, and ELISA. C2-10 does not recognize chicken PARP.

## Applications Tested

The recommended dilution for use in Western Blot is 1:10,000 along with the following detection method: Chemiluminescence (Renaissance from Dupont) with a second antibody (anti-mouse IgG) conjugated to peroxidase (Jackson Laboratories). The recommended dilution for use in immunoprecipitation is 1:100. C2-10 can be used for immunohisto(cyto)chemistry at a dilution of 1:1000-1:5000. C2-10 can be used for ELISA at a dilution of 1:1,000,000. It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

## Related Products

Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control  
Cat. 18-8877 Mouse TrueBlot™: Horseradish Peroxidase (HRP) anti-mouse IgG

## References

Zahradka P., Ebisuzaki K. (1984) Eur. J. Biochem. 142: 503-509.  
Shah G.M. et al (1995) Analytical Biochem. 227: 1-13 (review).  
Patel, T. et al. (1996) FASEB 10:587-597.  
Kaufmann, S.H. et al. (1993) Cancer Res. 53:3976-3985.  
Lamarre, D. et al. (1988) Biochem. Biophys. Acta 950:147-160.  
Lamarre, D. et al. (1986) Biochem. Cell Biol. 64:368-376.  
Tewari, M. et al. (1995) Cell 81:801-809.

