

PARP Monoclonal Antibody (C-2-10)

CATALOG #:	3001-100
AMOUNT:	100 µg
LOT #:	_____
CLONE No.:	C-2-10
ISOTOPE:	Mouse IgG ₁
IMMUNOGEN:	Purified calf thymus PARP
EPITOPE:	C-terminal DNA binding domain of PARP
SPECIES REACTIVITY:	human, mouse, rat, monkey, hamster.
FORMULATION:	100 µg (0.2 mg/ml) protein A purified IgG ₁ in PBS containing 0.5% BSA and 0.05% thimerosal.
STORAGE CONDITIONS:	Store at -20°C. For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

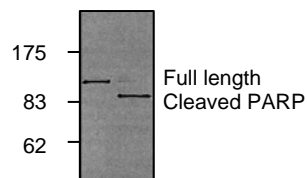
PARP is a highly conserved nuclear enzyme present in higher eukaryotes. The enzyme is a Zn²⁺-dependent DNA binding protein that recognizes DNA strand breaks and is implicated in DNA repair and in apoptosis responses of cells. As a marker for apoptosis, it has been shown that PARP cleavage mediated by caspase-3 activity occurs at the onset of apoptosis, and inhibition of PARP cleavage attenuates apoptosis *in vitro*.

WESTERN BLOT APPLICATIONS:

For Western blotting, sonication and urea are necessary to break up PARP/DNA interactions. To do this, resuspend cells in 62.5 mM Tris-HCl, pH 6.8, 6 M urea, 10% glycerol, 2% SDS, 0.00125% bromophenol blue and 5% β-mercaptoethanol, sonicate for 15 seconds on full power and incubated at 65°C for 15 minutes, and then follow standard Western blotting procedures. Untreated cells should show only full-length PARP, while treated cells will show both cleaved and full-length PARP.

APPLICATIONS AND RECOMMENDED USAGE:

Western Blotting (1-4 µg/ml) and immunocytochemistry. Recognize 116 kDa PARP and the 85 kDa apoptosis-related cleavage fragment. However, the optimal conditions should be determined individually.



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Western blot analysis of PARP in Jurkat cells treated with (Right lane) or without (Left lane) camptothecin.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies