Product Information

**Monoclonal Anti-PARP, Clone C-2-10**
produced in mouse, ascites fluid

Catalog Number P248

**Synonym:** Monoclonal Anti-Poly[ADP-ribose] Polymerase

**Product Description**
Monoclonal Anti-PARP (mouse IgG1) is produced by immunizing mice with purified calf thymus poly(ADP-ribose) polymerase as the antigen.

This antibody recognizes a 116 kDa protein which corresponds to PARP and the 85 kDa apoptosis-induced cleavage product of prICE (proteinase resembling interleukin 1β-converting enzyme) and CPP32 (cysteine protease). It also recognizes PARP from mouse, rat, hamster and primate sources, but fails to detect avian PARP.

PARP is a eukaryotic nuclear protein involved in differentiation, DNA repair, and chromatin structure formation. During the process of programmed cell death, or apoptosis, the cell undergoes distinct morphological changes, which include shrinkage, membrane blebbing, and nuclear reorganization. Several members of the interleukin 1β-converting enzyme (ICE)/ced-3 family of proteinases, or caspases, are activated in a cascade of cleavage events which leads to the degradation of critical cellular substrates. PARP contains a conserved proteinase recognition site, DEVD (single letter code for amino acids), which is known to be a target for several caspases including prICE and CPP32/YAMA. Other nuclear events that are concurrent with PARP cleavage during apoptosis are activation of the domain nuclease and fragmentation nuclease which cleave DNA into >50 kb and nucleosome-sized fragments, respectively.

**Reagents**
Supplied as a solution in mouse ascites fluid containing 0.02% sodium azide.

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**
For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

**Product Profile**
- **Immunoblotting:** recommended starting titer 1:1,000
- **Immunocytochemistry:** recommended starting titer 1:1,000

**Note:** Optimal working concentration should be determined by serial dilutions.

**References**

ADM,PHC 02/11-1