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PRODUCT: PARP Monoclonal Antibody (Mouse IgG1, C-2-10)

CATALOG No. 630210
AMOUNT 50 µl

LOT NUMBER
Specified on product label.

STORAGE CONDITIONS

- Short term: store at -20°C (or -70°C).
- Long term (>2 weeks): aliquot and store at -20°C (or -70°C).
- Avoid repeated freeze/thaw cycles.

SHELF LIFE
1 year from date of receipt under proper storage conditions.

SHIPPING CONDITIONS
Dry ice (-70°C)

DESCRIPTION
Clone C-2-10 recognizes 116-kDa native poly (ADP-ribose) polymerase (PARP) and the 85-kDa apoptosis-related cleavage product. This mouse monoclonal antibody cross-reacts with human, monkey, hamster, rat, and mouse. PARP is a target of proteolytic cleavage by the ICE-family proteases CPP32 and Mch2 α during the early stages of apoptosis (1-2). PARP cleavage is an early indicator of apoptosis. Native PARP has a molecular weight of 116 kDa; cleavage yields fragments of 85 kDa and 25 kDa (3).

WORKING CONCENTRATION
For Western blotting: 1:10,000 for enhanced chemiluminescence; 1:1,000-1:2,000 for alkaline phosphatase.
For immunocytochemistry: 1:1,000.
For ELISA: 1:1,000,000.

PACKAGE CONTENTS

- PARP Monoclonal Antibody (Ig G1, C-2-10)

OTHER

- Antibodies Protocol Guide (PT3407-1)

FOR RESEARCH USE ONLY

QUALITY CONTROL DATA

Apoptosis was induced in HL-60 cells by treatment with etoposide. Cell lysates from both induced and noninduced cells were analyzed by 12% SDS-PAGE, followed by Western blot analysis using a 1:1,000 dilution of PARP Monoclonal Antibody (IgG1, C-2-10). In noninduced cells, a major 116-kDa band was observed. In induced cells, a major 85-kDa band was observed.

REFERENCES

1. Fernandes-Alnemri, T., *et al.* (1995) *Cancer Research* **55**:2737-2742.
2. Tewari, M., *et al.* (1995) *Cell* **81**:801-809.
3. Kaufmann, S. H., *et al.* (1993) *Cancer Research* **53**:3976-3985.

APPROVED BY: 

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