



Monoclonal mouse Anti-PARP Antibody

Catalog Number: 4338-MC

Size: 50 µg

Clone: C2-10

Immunogen: Full length calf thymus poly(ADP-ribose) polymerase (PARP)

Host Species: Mouse

Antibody Class: IgG₁

Purity: ≥95%

Diluent: PBS with 0.2% BSA and 0.05% sodium azide

Activity: Determined by western blot analysis

Concentration: Refer to vial label

Physical State: Frozen liquid

DESCRIPTION

Poly(ADP-ribose)Polymerase (PARP) is an abundant 116 kDa eukaryotic post-translational modification enzyme. PARP activity is strongly stimulated upon binding to DNA strand breaks and it is thought to be involved in DNA repair, genetic recombination, and apoptosis. PARP is a substrate for certain members of the IL-1β converting enzyme (ICE) family of proteases, also known as caspases. During apoptosis, PARP is cleaved into two proteolytic fragments of 25 and 85 kDa.

SPECIFICITY

This antibody recognizes both the full length (116 kDa) and 85 kDa cleavage fragment of PARP in human, monkey, mouse, rat, bovine and hamster systems. Chicken PARP is not recognized. Other species have not been tested.

APPLICATIONS

- ◆ **Western Blot:** Use to detect full length PARP and the 85 kDa cleavage fragment associated with apoptosis.

To access examples of protocols for Western blotting and immunocytochemistry with this antibody, please refer to the following web site address: <http://www.RnDSystems.com/pdf/4338prot.pdf>

STORAGE

This product is stable as shipped for a least one year when stored at ≤ -20° C. *Avoid multiple freeze/thaw cycles by storage in appropriate aliquots. Do not store in a frost-free freezer.*

REFERENCES

1. Lamarre *et al.*, Structural and functional analysis of poly(ADP-ribose) polymerase: an immunological study. *Biochem. Biophys. Acta* **950**:147 (1988).
2. Lazebnik *et al.*, Cleavage of poly(ADP-ribose) polymerase by a proteinase with properties like ICE. *Nature* **371**:346 (1994).