

PARP1 monoclonal antibody

Catalog: MB9403

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Poly(ADP-ribose) polymerase-1 (PARP-1), also designated PARP, is a nuclear DNA-binding zinc finger protein that influences DNA repair, DNA replication, modulation of chromatin structure, and apoptosis. In response to genotoxic stress, PARP-1 catalyzes the transfer of ADP-ribose units from NAD(+) to a number of acceptor molecules including chromatin. PARP-1 recognizes DNA strand interruptions and can complex with RNA and negatively regulate transcription. Actinomycin D- and etoposide-dependent induction of caspases mediates cleavage of PARP-1 into a p89 fragment that traverses into the cytoplasm. Apoptosis-inducing factor (AIF) translocation from the mitochondria to the nucleus is PARP-1-dependent and is necessary for PARP-1-dependent cell death. PARP-1 deficiencies lead to chromosomal instability due to higher frequencies of chromosome fusions and aneuploidy, suggesting that poly(ADP-ribosyl)ation contributes to the efficient maintenance of genome integrity.

Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

113 kDa

Swiss-Prot:

P09874(Human) P11103(Mouse) P27008(Rat)

Purification&Purity:

Peptide affinity purified

Applications:

WB:1:500

ICC:1:50-1:100

IHC:1:100-1:500

FC:1:50-1:100

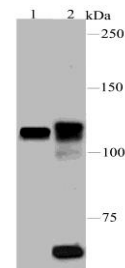
Storage&Stability:

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

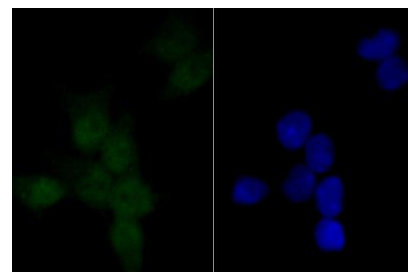
Specificity:

PARP1 monoclonal antibody detects endogenous levels of PARP1 protein.

DATA:



Western blot analysis of PARP1 on different lysates using anti-PARP1 antibody at 1/100 dilution. Positive control: Lane1: Daudi Lane2: Rat spleen tissue



ICC staining PARP1 (green) in 293T cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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