

PARP Antibody (7A10)

CATALOG #:	3023-100
AMOUNT:	100 µl
SPECIES REACTIVITY:	Human
FORMULATION:	1 mg/ml. Supplied in 10 mM HEPES Sodium (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and 0.03% sodium azide.
IMMUNOGEN:	A synthetic peptide corresponding to residues before the cleavage site of human PARP-1 was used as immunogen. The antibody only recognizes full-length form (p116) of PARP-1.
MOLECULAR WEIGHT:	116 kDa
CLONE #	7A10, IgG1, from ascites
STORAGE CONDITIONS:	Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND DESCRIPTION:

PARP, a 116 kDa nuclear poly (ADP-ribose) polymerase, appears to be involved in DNA repair in response to environmental stress. This protein can be cleaved by many ICE-like Caspases in vitro and is one of the main cleavage targets of caspase-3 in vivo. In human PARP, the cleavage occurs between Asp214 and Gly215, which separates the PARP amino-terminal DNA binding domain (24 kDa) from the carboxy-terminal catalytic domain (89 kDa). PARP helps cells to maintain their viability; cleavage of PARP facilitates cellular disassembly and serves as a marker of cells undergoing apoptosis.

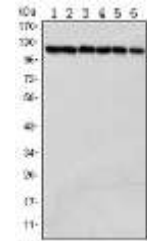
SPECIFICITY:

PARP Mouse mAb detects endogenous levels of PARP protein.

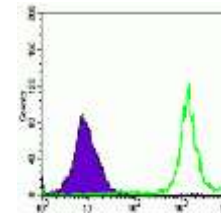
APPLICATION AND USAGE:

The antibody performs well on Western blot (1:500-1:2000) and Flow Cytometry studies (1:200-1:400). However, the optimal conditions should be determined individually.

FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis using PARP mouse mAb against Jurkat (1), K562 (2), HeLa (3), Raji (4), THP-1 (5) and SW620 (6) cell lysate.



Flow cytometric analysis of Jurkat cells using anti-PARP mAb (green) and negative control (purple).

RELATED PRODUCTS:

3140-100:	PARP (Cleaved) Antibody
3141-100:	PARP (Cleaved) Antibody
3142-100:	PARP (Cleaved) Antibody
3002-100:	PARP Antibody
3002BP-50:	PARP Blocking Peptide
1620-5:	ABT-888
1620-1:	ABT-888
3004-100:	Caspase-3 Antibody
3015-100:	Caspase-3 (Active) Antibody
3138-100:	Caspase-3 Antibody