

Catalog Number	PA-MM 000001
Batch Number(s):	PA-B-0001-MM-PARP1
Product Name	Mouse anti-Human PARP1 Monoclonal (5F10/B7)

PRODUCT SPECIFICATION

Host	Mouse
Colonicity	Monoclonal
Subclass	IgG1
Immunogen	Immunogen against recombinant full-length protein, Uniprot ID P09874, Gene ID 142
Conjugate	Unconjugated
Form	Liquid
Concentration	1.0 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:500
Immunocytochemistry / Microscopy	1:250

PRODUCT DESCRIPTION

PARP1 (Poly(ADP-ribose) polymerase 1) plays a key role in detecting DNA damage, such as single-strand breaks (SSBs) and double-strand breaks (DSBs), by binding to the damage site. It synthesizes poly(ADP-ribose) (PAR) chains from NAD⁺, which recruit DNA repair proteins and initiate the repair process. Both PARP1 and PARP2 interact with nucleophosmin in nucleoli, a protein involved in various stages of ribosome biogenesis, including rDNA transcription and rRNA processing.

Uniprot ID	P09874
Gene ID	142
Gene Symbol	PARP1

Gene Aliases ADP-ribosyltransferase (NAD⁺; poly (ADP-ribose) polymerase); ADP-ribosyltransferase diphtheria toxin-like 1; ADP-ribosyltransferase NAD(+); ADPRT; ADPRT 1; ADPRT1; ARTD1; NAD(+) ADP-ribosyltransferase 1; pADPRT-1; PARP; PARP-1; poly (ADP-ribose) polymerase family, member 1; poly ADP-ribose polymerase 1; poly(ADP-ribose) synthetase; poly(ADP-ribosyl)transferase; polyADP-ribose synthase 1; PPOL

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