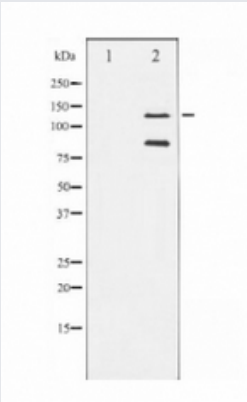
PARP Antibody

PRODUCT OVERVIEW

Product Name	PARP, Antibody
Full Product Name	Cleaved-PARP antibody
Product Gene Name	anti-PARP antibody
Product Synonym Names	ADP-ribosyltransferase 1; ADPRT; ADPRT1; pADPRT-1; PARP; PARP-1; poly (ADP-ribose) pol; poly [ADP-ribose] polymerase 1; poly[ADP-ribose] synthetase 1; PPOL
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	PARP (Cleaved-Asp214) Antibody detects endogenous levels of fragment of activated PARP resulting from cleavage adjacent to Asp214.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	85; 110kDa
OMIM	173870
3D Structure	ModBase 3D Structure for P09874
Immunogen	The antiserum was produced against synthesized peptide derived from human PARP.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PARP antibody	Western Blot (WB)
Application Notes for anti-PARP antibody	WB: 1:500-1:2000
Related Product Information for anti-PARP antibody	Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks.
Other Notes	Small volumes of anti-PARP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PARP purchase	MBS8512522 is an antibody targeting PARP. Also known as Cleaved-PARP antibody. Reactive in Human, Mouse.



Western Blot (WB) of anti-PARP antibody
Western blot analysis of extracts from A549 cells, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARP. It may not necessarily be applicable to this product.

NCBI GI #	156523968
NCBI GeneID	142
NCBI Accession #	NP_001609.2
UniProt Primary Accession #	P09874
UniProt Secondary Accession #	Q8IUZ9; B1ANJ4
UniProt Related Accession #	P09874
GenBank Nucleotide #	NM_001618.3
NCBI Official Full Name	poly
NCBI Official Synonym Full Names	poly(ADP-ribose) polymerase 1
NCBI Official Symbol	PARP1
NCBI Official Synonym Symbols	PARP; PPOL; ADPRT; ARTD1; ADPRT1; PARP-1; ADPRT 1; pADPRT-1
UniProt Protein Name	Poly [ADP-ribose] polymerase 1
UniProt Synonym Protein Names	ADP-ribosyltransferase diphtheria toxin-like 1; ARTD1; NAD(+) ADP-ribosyltransferase 1; ADPRT 1; Poly[ADP-ribose] synthase 1
Protein Family	PARP-type zinc finger-containing protein
UniProt Gene Name	PARP1
UniProt Synonym Gene Names	ADPRT; PPOL; PARP-1; ARTD1; ADPRT 1
NCBI Protein Information	poly [ADP-ribose] polymerase 1
NCBI Summary for PARP	This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes. [provided by RefSeq, Jul 2008]

UniProt Comments for PARP	Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks (PubMed:17177976, PubMed:18172500, PubMed:19344625, PubMed:19661379, PubMed:23230272). Mediates the poly(ADP-ribosyl)ation of APLF and CHFR (PubMed:17396150). Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. With EEF1A1 and TXK, forms a complex that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production (PubMed:17177976). Required for PARP9 and DTX3L recruitment to DNA damage sites (PubMed:23230272). PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites (PubMed:23230272). Mediates serine ADP-ribosylation of target proteins following interaction with HPF1; HPF1 conferring serine specificity (PubMed:28190768). Mediates the poly(ADP-ribosyl)ation of histones in a HPF1-dependent manner (PubMed:27067600). Involved in the synthesis of ATP in the nucleus, together with NMNAT1, PARG and NUDT5 (PubMed:27257257). Nuclear ATP generation is required for extensive chromatin remodeling events that are energy-consuming (PubMed:27257257).
Research Articles on PARP	**1.** The phosphorylation level of p38 was upregulated by MA1 treatment, and the inhibitor of p38, SB203580, attenuated the MA1-induced p38 phosphorylation as well as caspase3 and PARP activation. These results indicate that MA1 treatment alters invasive and oncogenic phenotypes of human colorectal cancer cells through the stimulation of the p38 signaling pathway
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