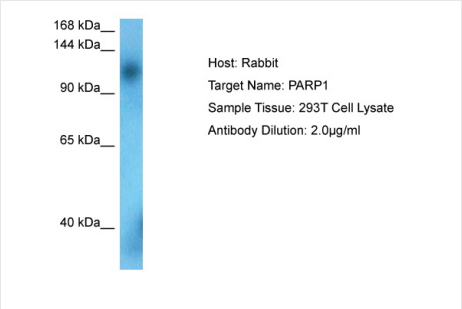
PARP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PARP1, Polyclonal Antibody
Full Product Name	PARP1 Antibody - C-terminal
Product Gene Name	anti-PARP1 antibody
Product Synonym Gene Name	ADPRT; PPOL
Immunogen Sequence	Synthetic peptide located within the following region: LLDIEVAYSL LRGGSDDSSK DPIDVNYEKL KTDIKVVDRD SEEAEIIRKY
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	111 kDa
OMIM	173870
3D Structure	ModBase 3D Structure for P09874
Immunogen	The immunogen is a synthetic peptide directed towards the C-terminal region of Human PARP1
Product Categories/Family for anti-PARP1 antibody	Polyclonal; Cell Cycle Proteins; Cell Biology; Mitochondria; Meiosis/Mitosis/Cell Cycle
Applications Tested/Suitable for anti-PARP1 antibody	Western Blot (WB)
Related Product Information for anti-PARP1 antibody	This is a rabbit polyclonal antibody against PARP1. It was validated on Western Blot Target Description: 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.
Other Notes	Small volumes of anti-PARP1 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 PARP1 purchase	MBS3219871 is an antibody targeting PARP1. Also known as PARP1 Antibody - C-terminal. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PARP1 antibody
Host: RabbitTarget Name: PARP1Sample Type: 293T Whole CellAntibody Dilution: 1.0ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARP1. 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 Related Accession #	P09874
GenBank Nucleotide #	NM_001618.4
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	Poly [ADP-ribose] polymerase
UniProt Gene Name	PARP1
UniProt Synonym Gene Names	ADPRT; PPOL; PARP-1; ARTD1; ADPRT 1
UniProt Entry Name	PARP1_HUMAN
NCBI Protein Information	poly [ADP-ribose] polymerase 1
NCBI Summary for PARP1	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 PARP1	PARP1: 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. Mediates the poly(ADP- ribosyl)ation of APLF and CHFR. 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. Component of a base excision repair (BER) complex, containing at least XRCC1, PARP2, POLB and LRIG3. Homo- and heterodimer with PARP2. Interacts with PARP3, APTX and SRY. The SWAP complex consists of NPM1, NCL, PARP1 and SWAP70. Interacts with TIAM2 and ZNF423. Interacts (when poly-ADP- ribosylated) with CHD1L. Interacts with the DNA polymerase alpha catalytic subunit POLA1; this interaction functions as part of the control of replication fork progression. Interacts with EEF1A1, RNF4 and TXK. Protein type: Nucleolus; Nuclear envelope; DNA repair, damage; Nuclear receptor co-regulator; EC 2.4.2.30; Transferase Chromosomal Location of Human Ortholog: 1q41-q42 Cellular Component: nucleoplasm; transcription factor complex; membrane; nucleolus; nuclear envelope; nucleus Molecular Function: identical protein binding; protein binding; enzyme binding; DNA binding; zinc ion binding; protein N-terminus binding; NAD binding; transcription factor binding; protein kinase binding; NAD+ ADP-ribosyltransferase activity Biological Process: transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; macrophage differentiation; transcription, DNA-dependent; DNA damage response, detection of DNA damage; negative regulation of transcription from RNA polymerase II promoter; DNA repair; protein autoprocessing; protein amino acid ADP-ribosylation; cellular response to insulin stimulus; base-excision repair; transforming growth factor beta receptor signaling pathway; double-strand break repair; positive regulation of transcription from RNA polymerase II promoter; gene expression; regulation of growth rate; telomere maintenance
Research Articles on PARP1	**1.** PARP1 is acting as a coactivator of HIF-1alpha-dependent gene expression in B cells, and this co-activation is enhanced by LMP1-mediated activation of PARP1.
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