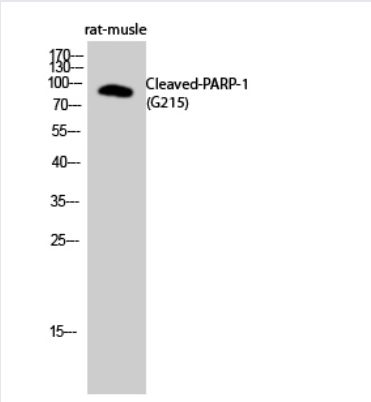
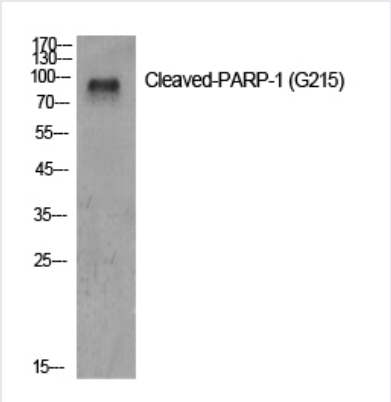
Cleaved-PARP-1 (PARP1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cleaved-PARP-1 (PARP1), Polyclonal Antibody
Full Product Name	Cleaved-PARP-1 (G215) Polyclonal Antibody
Product Gene Name	anti-PARP1 antibody
Product Synonym Names	PARP1; ADPRT; PPOL; Poly [ADP-ribose] polymerase 1; PARP-1; ADP-ribosyltransferase diphtheria toxin-like 1; ARTD1; NAD(+) ADP-ribosyltransferase 1; ADPRT 1; Poly[ADP-ribose] synthase 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	Cleaved-PARP-1 (G215) Polyclonal Antibody detects endogenous levels of fragment of activated PARP-1 protein resulting from cleavage adjacent to G215.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	113,084 Da
OMIM	173870
3D Structure	ModBase 3D Structure for P09874
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from the Internal region of human PARP-1.
Target Name	Cleaved-PARP-1
Product Categories/Family for anti-PARP1 antibody	Total protein Ab
Applications Tested/Suitable for anti-PARP1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PARP1 antibody	Western Blot: 1:500 - 1:2000 ELISA: 1:5000 Not yet tested in other applications.
Related Product Information for anti-PARP1 antibody	MBS9409388 is an antibody targeting PARP1. Also known as Cleaved-PARP-1 (G215) Polyclonal Antibody. Reactive in Human. Host: Rabbit.
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.



Western Blot (WB) of anti-PARP1 antibody
Western Blot analysis of rat-musle cells using Cleaved-PARP-1 (G215) Polyclonal Antibody



Western Blot (WB) of anti-PARP1 antibody
Western Blot analysis of various cells using Cleaved-PARP-1 (G215) Polyclonal Antibody

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 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	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: Nuclear receptor co-regulator; Nucleolus; Nuclear envelope; EC 2.4.2.30; DNA repair, damage; 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; double-strand break repair; transforming growth factor beta receptor signaling pathway; gene expression; positive regulation of transcription from RNA polymerase II promoter; regulation of growth rate; telomere maintenance
Research Articles on PARP1	**1.** PARP1 interdomain linker regions that connect BRCT to WGR module and WGR to PRD domain undergo prominent ADP-ribosylation during PARP-1 automodification. ADP-ribosylation occurs also D-loop structure within PARP1 catalytic fold in three zinc fingers.
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