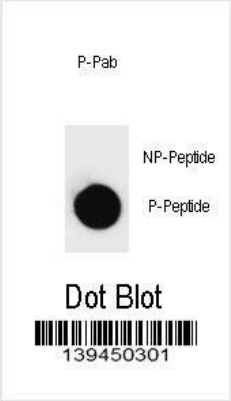
PARP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PARP1, Polyclonal Antibody
Full Product Name	PARP1, Phosphorylated (T368) (PARP1, ADPRT, PPOL, Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, NAD(+) ADP-ribosyltransferase 1, Poly[ADP-ribose] synthase 1) (AP)
Product Gene Name	anti-PARP1 antibody
Product Synonym Names	PARP1; ADPRT; PPOL; Poly [ADP-ribose] polymerase 1; ADP-ribosyltransferase diphtheria toxin-like 1; NAD(+) ADP-ribosyltransferase 1; Poly[ADP-ribose] synthase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	113,084 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (226548392..226595801, complement). Location: 1q41-q42
OMIM	173870
3D Structure	ModBase 3D Structure for P09874
Immunogen	Phospho-PARP1-T368 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T368 of human PARP1.
Conjugate	AP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-PARP1 antibody	Antibodies; Enzymes; Polymerase
Applications Tested/Suitable for anti-PARP1 antibody	ELISA (EIA), Dot Blot (DB)
Application Notes for anti-PARP1 antibody	ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PARP1 antibody	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.
Product References and Citations for anti-PARP1 antibody	Majewski, P.M., et al. J. Biol. Chem. 285(45):34828-34838(2010). Kim, M., et al. Cancer Sci. 101(11):2436-2442(2010). Dong, Y., et al. Cancer Res. 70(20):8088-8096(2010). Krishnakumar, R., et al. Mol. Cell 39(5):736-749(2010). Lee, K.A., et al. Rheumatol. Int. (2010).

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	MBS6330945 is an antibody targeting PARP1. Also known as PARP1, Phosphorylated (T368) (PARP1, ADPRT, PPOL, Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, NAD(+) ADP-ribosyltransferase 1, Poly[ADP-ribose] synthase 1) (AP). Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-PARP1 antibody
Dot blot analysis of Phospho-PARP1-T368 Antibody Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per 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 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; poly [ADP-ribose] polymerase 1; poly(ADP-ribose) polymerase; poly(ADP-ribose) synthetase; poly[ADP-ribose] synthase 1; poly(ADP-ribosyl)transferase; ADP-ribosyltransferase NAD(+); NAD(+) ADP-ribosyltransferase 1; poly (ADP-
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.** Observations indicate a significant relationship between p22phox C242T and PARP-1 Val762Ala polymorphisms, CAD and its severity, but not with occurrence of MI in T2DM individuals with significant coronary stenoses.
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