PARP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PARP1, Polyclonal Antibody
Full Product Name	PARP1, Phosphorylated (S373 (Parp1, Adprt, Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, NAD(+) ADP-ribosyltransferase 1, Poly[ADP-ribose] synthase 1) (MaxLight 405)
Product Gene Name	anti-PARP1 antibody
Product Synonym Names	Parp1; Adprt; 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	Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. 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. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	112,660 Da
3D Structure	ModBase 3D Structure for P27008
Immunogen	Phospho-rat PARP1-S373 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S373 of rat PARP1.
Conjugate	MaxLight405
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-PARP1 antibody	Antibodies; Enzymes; Polymerase
Applications Tested/Suitable for anti-PARP1 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-PARP1 antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PARP1 antibody	catalyzes poly (ADP-ribose) protein modification; plays a role in DNA repair and genome stability [RGD].
Product References and Citations for anti-PARP1 antibody	Beneke, S., et al. Mech. Ageing Dev. 131(5):366-369(2010). Kondo, K., et al. J. Biol. Chem. 285(17):13079-13091(2010). Zaalishvili, G., et al. Biochem. Biophys. Res. Commun. 393(1):123-125(2010). Drel, V.R., et al. Endocrinology 150(12):5273-5283(2009). Adamczyk, A., et al. Folia Neuropathol 47(3):247-251(2009).
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	MBS6330906 is an antibody targeting PARP1. Also known as PARP1, Phosphorylated (S373 (Parp1, Adprt, Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, NAD(+) ADP-ribosyltransferase 1, Poly[ADP-ribose] synthase 1) (MaxLight 405). Reactive in Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARP1. It may not necessarily be applicable to this product.

NCBI GI #	6978455
NCBI GeneID	25591
NCBI Accession #	NP_037195.1
UniProt Primary Accession #	P27008
UniProt Secondary Accession #	O35937
UniProt Related Accession #	P27008
GenBank Nucleotide #	NM_013063.2
NCBI Official Full Name	poly
NCBI Official Synonym Full Names	poly (ADP-ribose) polymerase 1
NCBI Official Symbol	Parp1
NCBI Official Synonym Symbols	ARTD1; Adprt; Parp-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; PARP-1; ARTD1; ADPRT 1
UniProt Entry Name	PARP1_RAT
NCBI Protein Information	poly [ADP-ribose] polymerase 1
NCBI Summary for PARP1	catalyzes poly (ADP-ribose) protein modification; plays a role in DNA repair and genome stability [RGD, Feb 2006]

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: EC 2.4.2.30; DNA repair, damage; Transferase; Nucleolus; Nuclear receptor co-regulator; Nuclear envelope Cellular Component: nucleoplasm; transcription factor complex; protein complex; membrane; cytoplasm; nucleolus; nuclear envelope; nucleus Molecular Function: identical protein binding; enzyme binding; DNA binding; zinc ion binding; transferase activity, transferring pentosyl groups; protein N-terminus binding; protein kinase binding; transcription factor binding; NAD binding; NAD+ ADP-ribosyltransferase activity Biological Process: protein autoprocessing; protein amino acid ADP-ribosylation; cellular response to insulin stimulus; transcription, DNA-dependent; base-excision repair; double-strand break repair; transforming growth factor beta receptor signaling pathway; DNA damage response, detection of DNA damage; positive regulation of transcription from RNA polymerase II promoter; regulation of growth rate; telomere maintenance; DNA metabolic process
Research Articles on PARP1	**1.** Data show that MP-124 induced micronuclei through poly(ADP-ribose) polymerase-1 (PARP-1) inhibition.
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