



Human PARP1 peptide (DAG-P1766)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jul 2008]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 BRCT domain.Contains 1 PARP alpha-helical domain.Contains 1 PARP catalytic domain.Contains 2 PARP-type zinc fingers.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	PARP1 poly (ADP-ribose) polymerase 1 [Homo sapiens (human)]
Official Symbol	PARP1
Synonyms	PARP1; poly (ADP-ribose) polymerase 1; PARP; PPOL; ADPRT; ARTD1; ADPRT1; PARP-1; ADPRT 1; pADPRT-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-ribose) polymerase family, member 1; ADP-ribosyltransferase diphtheria toxin-like 1; ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase);

Entrez Gene ID	142
mRNA Refseq	NM_001618.3
Protein Refseq	NP_001609.2
UniProt ID	P09874
Chromosome Location	1q41-q42
Pathway	BER complex, organism-specific biosystem; BER complex, conserved biosystem; Base excision repair, organism-specific biosystem; Base excision repair, conserved biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Corticotropin-releasing hormone, organism-specific biosystem; Disease, organism-specific biosystem; Downregulation of SMAD2/3:SMAD4 transcriptional activity, organism-specific biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem; Gen
Function	DNA binding; NAD binding; NAD+ ADP-ribosyltransferase activity; NAD+ ADP-ribosyltransferase activity; R-SMAD binding; enzyme binding; identical protein binding; poly(A) RNA binding; protein N-terminus binding; protein binding; transcription factor binding