

Datasheet for ABIN7197450

PARP1 Protein (His tag)



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Quantity:	50 μg
Target:	PARP1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PARP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PARP-1 Protein (His Tag)(Active)
Sequence:	Met 1-Trp 1014
Characteristics:	The amino acids corresponding to the full length of human PARP1 (NP_001609.2) (Met 1-Trp 1014) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. 2. Immobilized human PARP1 at 10 μ g/mL (100 μ l/well) can bind biotinylated human HSP70, The EC50 of biotinylated human HSP70 is 0.035 μ g/mL.

Target Details

Target:	PARP1
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Target Details

Alternative Name:	PARP-1 (PARP1 Products)	
Background:	Background: Poly (ADP-ribose) polymerase 1(PRAP1), also known as NAD(+) ADP-	
	ribosyltransferase 1(ADPRT), is a chromatin-associated enzyme which modifies various nuclear	
	proteins by poly(ADP-ribosyl)ation. The ADP-D-ribosyl group of NAD+ is transferred to an	
	acceptor carboxyl group on a histone or the enzyme itself, and further ADP-ribosyl groups are	
	transferred to the 2'-position of the terminal adenosine moiety, building up a polymer with an	
	average chain length of 20-30 units. The poly(ADP-ribosyl)ation modification is critical for a	
	wide range of processes, including DNA repair, regulation of chromosome structure,	
	transcriptional regulation, mitosis and apoptosis. PARP1 is demonstrateed to mediate the	
	poly(ADP-ribose) ation of APLF (aprataxin PNK-like factor) and CHFR (checkpoint protein with	
	FHA and RING domains), two representative proteins involved in the DNA damage response	
	and checkpoint regulation. Further, It has been suggested that DNA-dependent protein kinase	
	(DNA-PK), another component of DNA repair, suppresses PARP activity, probably through direct	
	binding and/or sequestration of DNA-ends which serve as an important stimulator for both	
	enzymes. PARP1 inhibitors is thus proposed as a targeted cancer therapy for recombination	
	deficient cancers, such as BRCA2 tumors.	
	Synonym: ADPRT,ADPRT1,ARTD1,pADPRT-1,PARP,PARP-1,PPOL	
Molecular Weight:	114.5 kDa	
NCBI Accession:	NP_001609	
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, DNA Damage Repair, Production of Molecular	
	Mediator of Immune Response, Maintenance of Protein Location	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted	

samples are stable at < -20°C for 3 months.