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## Datasheet for ABIN1741729 PARP1 Protein

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### Overview

50 µg
PARP1
Human
Baculovirus
Recombinant
Active
Western Blotting (WB), ELISA, Poly ADP ribose research (PAR)
Biological Activity: 20000 U/mg PARP1,Protein targets
PARP1 Enzyme is highly purified and enzymatically active human PARP1, expressed in a baculovirus expression system. It is useful for high-throughput enzymatic assays, visualization of the automodification reaction by SDS-PAGE and Western blotting, ELISA, standard for SDS-PAGE and WB, and in other assays.
Full-length hPARP1
Full-length hPARP1 Affinity chromatography

## Target Details

Target:	PARP1
Alternative Name:	Poly ADP ribose Polymerase 1 (PARP1 Products)

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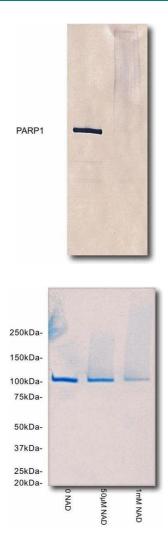
Target Details	
Background:	Poly (ADP-ribose) polymerase-1 (PARP1) is an abundant and ubiquitous nuclear enzyme that catalyzes the NAD(+)-dependent addition of ADP-ribose polymers on a variety of nuclear proteins.
Molecular Weight:	113 kDa
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, DNA Damage Repair, Production of Molecular Mediator of Immune Response, Maintenance of Protein Location

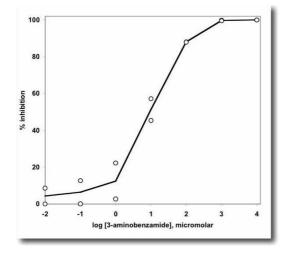
## Application Details

Application Notes:	10 ng/reaction
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Format: Reconstitution:	Lyophilized Reconsitute in dH20

## Publications

Product cited in:Yeo, Ting, Brena, Koh, Chen, Toh, Lim, Oh, Lee: "Genome-Wide Transcriptome and Binding SitesAnalyses Identify Early FOX Expressions for Enhancing Cardiomyogenesis Efficiency of hESCCultures." in: Scientific reports, Vol. 6, pp. 31068, (2016) (PubMed).





#### Western Blotting

**Image 1.** Western blot using anti-PARP1. Lane A, PARP1; Lane B, PARP1 automodified by incubation with 1mM NAD for 1h@RT. Note the single PARP1 band in lane A, unmodified PARP. Lane B indicates a smear of staining above MW 113kDa representing polyADPribosylated PARP1 modified to various extents. All detectable PARP1 is automodified in B. Blot was developed with HRP/TMB. Each lane has 100ng PARP1.

#### SDS-PAGE

**Image 2.** SDS-PAGE/Coomassie Blue staining of poly(ADPribose) automodified PARP1. PARP1 was incubated with 0, 50µM, or 1mM NAD for 10 min@RT in reaction buffer (see protocol). Samples (0.625µg/lane) were run on SDS-PAGE and stained with Coomassie Blue. With increasing NAD concentrations, the 113kDa PARP1 band decreases and there is a shift to a higher MW smear, indicating poly(ADPribose) PARP modified to various extents. At longer incubation times, there is a complete conversion from native to poly ADP-ribosylated PARP1 (not shown).

#### **Enzyme Activity Assay**

**Image 3.** PARP1 Enzyme Inhibition by 3-amino benzamide. PARP1 enzyme activity was assayed by ADP-ribose incorporation into immobilized histone for 1h@RT. Conditions were PARP1, 15ng/well, preincubated with increasing concentrations of 3-AB, performed in duplicate.

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