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Datasheet for ABIN1741730 **PARP1 Protein**

2 Images

1 Publication



Overview

Quantity:	5 µg
Target:	PARP1
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Application:	Western Blotting (WB), ELISA
Product Details	
Characteristics:	PARP1 Automodified is highly purified human PARP1, expressed in a baculovirus expression system, to which NAD+ and cofactors have been added to allow PARP automodification by poly(ADP-ribose). The PARP1 is lyophilized from its native state, and upon reconstitution with water, it retains residual poly ADP-ribosylation enzymatic activity. It is useful as a standard for ELISA, SDS-PAGE, Western blotting, and in other assays. Full-length hPARP1
Purification:	Affinity chromatography
Purity:	> 95 %
Target Details	

Target:	PARP1
Alternative Name:	Poly ADP ribose Polymerase 1 (PARP1 Products)
Background:	Poly (ADP-ribose) polymerase-1 (PARP1) is an abundant and ubiquitous nuclear enzyme that

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Target Details	
	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:	100 ng/lane WB, 10 ng/well ELISA
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconsitute in dH20
Storage:	-20 °C
Publications	
Product cited in:	Atkinson, Floerchinger, Qiao, Casey, Williamson, Moseley, Stoica, Goddard, Ge, Tullius, Tomlinson: "Donor brain death exacerbates complement-dependent ischemia/reperfusion injury in transplanted hearts." in: Circulation , Vol. 127, Issue 12, pp. 1290-9, (2013) (PubMed).

Validation report #029836 for Western Blotting (WB)



Western Blotting

Image 1. Western blot using anti-poly(ADPribose) polymer. Lane A, 100 ng PARP1; Lane B, 100 ng PARP1 Automodified. Note no staining in lane A, unmodified PARP. Lane B indicates a smear of staining above MW 113kDa indicating polyADP-ribosylated PARP modified to various extents. Blot was developed with HRP/TMB.

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SDS-PAGE

Image 2. SDS-PAGE/Coomassie Blue staining of PARP1. Lane A, PARP1; Lane B, PARP1 Automodified. Note 113kDa band (lower arrow) in lane A, unmodified PARP. Lane B indicates a smear of staining above MW 113kDa indicating polyADP-ribosylated PARP modified to various extents. A significant amount of automodified PARP did not enter the gel (top arrow).

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