

Product datasheet for TP307085

PARP1 (NM_001618) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens poly (ADP-ribose) polymerase 1 (PARP1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207085 representing NM_001618 Red=Cloning site Green=Tags(s)

MAESSDKLYRVEYAKSGRASCKKCESIPKDSLRLMIMVQSPMFDGKVPWHYHFSCFWKVGHSIRHPDVE
VDGFSELRWDDQQKVKKTAEAGGVTGKGQDGIGSKAEKTLGDFAAEYAKSNRSTCKGCMKIEKQVRLS
KKMVDPEKPQLGMIDRWYHPGCFVKNREELGFRPEYSASQLKGFSLLATEDKEALKKQLPGVKSEGKRKG
DEVGVDVAVAKKSKKEKDKDSKLEKALKAQNLDIWNKDELKVKCSTNDLKELLIFNKQVPSGESAIL
DRVADGMVFGALLPCEECGQLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKLLKV
KKQDRIFPPETSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGKLT
GTANKASLCISTKKEVEKMNKKMEEVKEANIRVSEDFLQDVSASTKSLQELFLAHILSPWGAEVKAEPV
EVPARGKSGAALSCKSKGQVKEEGINKSEKRMKLTLLKGGAAVDPDSGLEHSAHVLEKGGKVFSATLGLV
DIVKGTNSYYKLQLEDDKENRYWIFRSWGRVGTVIGSNKLEQMPSKEDAIEHFMKLYEETGNAWHSKN
FTKYPKFFYPLEIDYGQDEEAVKLTVNPGTKSKLPKPVQDLIKMIFDVESMCKAMVEYEIDLQKMPLGK
LSKRQIQAAYSILSEVQQAVSQGSSDSQILDLSNRFYTLIPHDFGMKKPPLLNNADSVQAKAEMLDNLLD
IEVAYSLLRGSDSSKDPIDVNYEKLKTDIKVDRDSEEAIEIRKYVKNTHATTHNAYDLEVIDIFKIE
REGECQRYKPFKQLHNRLLWHGSRRTNFAGILSQGLRIAPPEAPVTGYMFGKGIYFADMVSKSANYCHT
SQGDPIGLILLGEVALGNMYELKHASHIKLPKGKHSVKGLGKTPDPSANISLDGVDVPLGTGISSGVN
DTSLLYNEYIVYDIAQVNLKYLLKLFNFKTSW

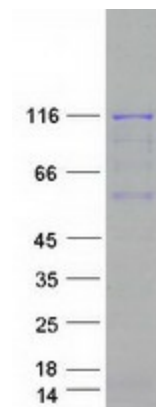
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	112.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001609
Locus ID:	142
UniProt ID:	P09874 , A0A024R3T8
RefSeq Size:	3859
Cytogenetics:	1q42.12
RefSeq ORF:	3042
Synonyms:	ADPRT; ADPRT 1; ADPRT1; ARTD1; pADPRT-1; PARP; PARP-1; PPOL
Summary:	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]
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Base excision repair

Product images:

Coomassie blue staining of purified PARP1 protein (Cat# TP307085). The protein was produced from HEK293T cells transfected with PARP1 cDNA clone (Cat# [RC207085]) using MegaTran 2.0 (Cat# [TT210002]).