

Product datasheet for PH307085

PARP1 (NM_001618) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PARP1 MS Standard C13 and N15-labeled recombinant protein (NP_001609)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207085
Predicted MW:	112.9 kDa
Protein Sequence:	>RC207085 representing NM_001618 Red=Cloning site Green=Tags(s)

MAESSDKLYRVEYAKSGRASCKKCESIPKDSLRLMAIMVQSPMFDGKVPWHYHFSFCFWKVGHSIRHPDVE
VDGFSELRWDDQKVKKTAEAGGVTGKQDGIKSKAEKTLGDFAAEYAKSNRSTCKGCKMEKIEKQVRLS
KKMVDPEKPQLGMIDRWYHPGCFVKNREELGFRPEYSASQLKGFSLLATEDKEALKKQLPGVKSEGRKRG
DEVGVDVEAVKKKSKKEKDKSKLEKALKAQNDLIWNIDELKKVCSTNDLKELLIFNKQVPSGESAIL
DRVADGMVFGALLPCEECGQLVFKSDAYYCTGDVTAWTKCMVKTQTPNRKEWVTPKEFREISYLKLLKV
KKQDRIFPPETSASVAATPPPSTASAPAAVNSSASADKPLSNMKILTLGKLSRNKDEVKAMIEKLGKLT
GTANKASLCISTKKEVEKMNNKMEEVKEANIRVSEDFLQDVSASTKSLQELFLAHLSPWGAEVKAEPV
EYVAPRGKSGAALSKKSKGQVKEEGINKSEKRMKLTGKGAAVDPDGLHSAHVLEKGGKVF SATLGLV
DIVKGTNSYYKLQLEDDKENRYWIFRSWGRVGTVIGSNKLEQMPKEDAIIEHFMKLYEEKTGNAWHSKN
FTKYPKFFYPLEIDYGQDEEAVKKTIVNPGTKSKLPKPVQDLIKMIFDVE SMKKAMVEYEIDLQKMP LGK
LSKRQIQAAYSILSEVQQAVSQGSSDSQILDLSNRFYTLIPHDFGMKKPPLLNNADSVQAKAEMLDNLLD
IEVAYSLLRGSSDDSSKDPIDVNYEKLKTDIKVVDRDSEAEIIRKYVKNTHATTHNAYDLEVIDIFKIE
REGECQRYKPFKQLHNRRLWHGSRRTNFAGILSQGLRIAPPEAPVTGYMFGKGIYFADMVSKSANYCHT
SQGDP IGLILLGEVALGNMYELKHASHISKLPKGKHSVKGLGKTPDPSANISLDGVDVPLGTGISSGVN
DTSLLYNEYIVYDIAQVNLKYLKLFNFKTSW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

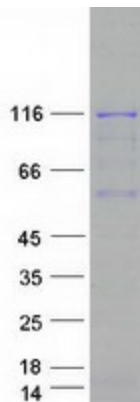
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.



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Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001609
RefSeq Size:	3859
RefSeq ORF:	3042
Synonyms:	ADPRT; ADPRT 1; ADPRT1; ARTD1; pADPRT-1; PARP; PARP-1; PPOL
Locus ID:	142
UniProt ID:	P09874 , A0A024R3T8
Cytogenetics:	1q42.12
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]).