antibodies

Datasheet for ABIN3132832 PARP1 Protein (AA 2-1013) (His tag)





Overview

Quantity:	1 mg
Target:	PARP1
Protein Characteristics:	AA 2-1013
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	AEASERLYRV QYAKSGRASC KKCSESIPKD SLRMAIMVQS PMFDGKVPHW YHFSCFWKVG
	QSIRHPDVEV DGFSELRWDD QQKVKKTAEA GGVAGKGQDG SGGKAEKTLG DFAAEYAKSN
	RSMCKGCLEK IEKGQMRLSK KMVDPEKPQL GMIDRWYHPT CFVKKRDELG FRPEYSASQL
	KGFSLLSAED KEALKKQLPA IKNEGKRKGD EVDGTDEVAK KKSRKETDKY SKLEKALKAQ
	NELIWNIKDE LKKACSTNDL KELLIFNQQQ VPSGESAILD RVADGMAFGA LLPCKECSGQ
	LVFKSDAYYC TGDVTAWTKC MVKTQNPSRK EWVTPKEFRE ISYLKKLKVK KQDRIFPPES
	SAPITVHWPL SVTSAPTAVN SSAPADKPLS NMKILTLGKL SQNKDEAKAV IEKLGGKLTG
	SANKASLCIS IKKEVEKMNK KMEEVKEANI RVVSEDFLQD VSASTKSLQD LLSAHSLSPW
	GAEVKAEPGE VVAPRGKSAA PSKKSKGCFK EEGVNKSEKR MKLTLKGGAA VDPDSGLEHS
	AHVLEKGGKV FSATLGLVDI VKGTNSYYKL QLLEDDKESR YWIFRSWGRL GTVIGSNKLE
	QMPSKEEAVE QFMKLYEEKT GNAWHSKNFT KYPKKFYPLE IDYGQDEEAV KKLTVKPGTK
	SKLPKPVQEL VGMIFDVDSM KKALVEYEID LQKMPLGKLS RRQIQAAYSI LSEVQQPVSQ

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	GSSESQILDL SNRFYTLIPH DFGMKKPPLL NNADSVQAKV EMLDNLLDIE VAYSLLRGGS
	DDSSKDPIDV NYEKLKTDIK VVDRDSEEAE VIRKYVKNTH ATTHNAYDLE VIDIFKIERE
	GESQRYKPFR QLHNRRLLWH GSRTTNFAGI LSQGLRIAPP EAPVTGYMFG KGIYFADMVS
	KSANYCHTSQ GDPIGLIMLG EVALGNMYEL KHASHISKLP KGKHSVKGLG KTTPDPSASI
	TLEGVEVPLG TGIPSGVNDT ALLYNEYIVY DIAQVNLKYL LKLKFNFKTS LW
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Parp1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	PARP1
Alternative Name:	Parp1 (PARP1 Products)
Background:	Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. With EEF1A1 and TXK, forms a complex that acts as a T-helper 1 (Th1) cell- specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production (By similarity). Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. Mediates the poly(ADP-ribosyl)ation of APLF and CHFR. Required for PARP9 and DTX3L recruitment to DNA damage sites. PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites (By similarity). {ECO:0000250}.
Molecular Weight:	113.9 kDa Including tag.
UniProt:	P11103
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, DNA Damage Repair, Production of Molecular Mediator of Immune Response, Maintenance of Protein Location
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

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Application Details	
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

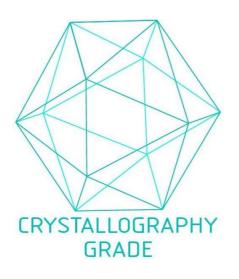


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process