Datasheet for ABIN7554902

PARP9 Protein (AA 1-854) (His tag)

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Overview

Quantity:	1 mg
Target:	PARP9
Protein Characteristics:	AA 1-854
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PARP9 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PARP9 Protein expressed in mammalian cells.
Sequence:	MDFSMVAGAA AYNEKSGRIT SLSLLFQKVF AQIFPQWRKG NTEECLPYKC SETGALGENY SWQIPINHND FKILKNNERQ LCEVLQNKFG CISTLVSPVQ EGNSKSLQVF RKMLTPRIEL SVWKDDLTTH AVDAVVNAAN EDLLHGGGLA LALVKAGGFE IQEESKQFVA RYGKVSAGEI AVTGAGRLPC KQIIHAVGPR WMEWDKQGCT GKLQRAIVSI LNYVIYKNTH IKTVAIPALS SGIFQFPLNL CTKTIVETIR VSLQGKPMMS NLKEIHLVSN EDPTVAAFKA ASEFILGKSE LGQETTPSFN AMVVNNLTLQ IVQGHIEWQT ADVIVNSVNP HDITVGPVAK SILQQAGVEM KSEFLATKAK QFQRSQLVLV TKGFNLFCKY IYHVLWHSEF PKPQILKHAM KECLEKCIEQ NITSISFPAL GTGNMEIKKE TAAEILFDEV LTFAKDHVKH QLTVKFVIFP TDLEIYKAFS SEMAKRSKML SLNNYSVPQS TREEKRENGL EARSPAINLM GFNVEEMYEA HAWIQRILSL QNHHIIENNH ILYLGRKEHD ILSQLQKTSS VSITEIISPG RTELEIEGAR ADLIEVVMNI EDMLCKVQEE MARKKERGLW RSLGQWTIQQ QKTQDEMKEN IIFLKCPVPP TQELLDQKKQ FEKCGLQVLK VEKIDNEVLM AAFQRKKKMM EEKLHRQPVS HRLFQQVPYQ FCNVVCRVGF

Product Details

	QRMYSTPCDP KYGAGIYFTK NLKNLAEKAK KISAADKLIY VFEAEVLTGF FCQGHPLNIV PPPLSPGAID GHDSVVDNVS SPETFVIFSG MQAIPQYLWT CTQEYVQSQD YSSGPMRPFA QHPWRGFASG SPVD **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PARP9
Alternative Name:	PARP9 (PARP9 Products)
Background:	Protein mono-ADP-ribosyltransferase PARP9 (EC 2.4.2.-) (ADP-ribosyltransferase diphtheria toxin-like 9) (ARTD9) (B aggressive lymphoma protein) (Poly [ADP-ribose] polymerase 9) (PARP-9),FUNCTION: ADP-ribosyltransferase which, in association with E3 ligase DTX3L, plays a role in DNA damage repair and in immune responses including interferon-mediated antiviral defenses (PubMed:16809771, PubMed:23230272, PubMed:26479788, PubMed:27796300). Within the complex, enhances DTX3L E3 ligase activity which is further enhanced by PARP9 binding to

Target Details

	poly(ADP-ribose) (PubMed:28525742). In association with DTX3L and in presence of E1 and E2 enzymes, mediates NAD(+)-dependent mono-ADP-ribosylation of ubiquitin which prevents ubiquitin conjugation to substrates such as histones (PubMed:28525742). During DNA repair, PARP1 recruits PARP9/BAL1-DTX3L complex to DNA damage sites via PARP9 binding to ribosylated PARP1 (PubMed:23230272). Subsequent PARP1-dependent PARP9/BAL1-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites (PubMed:23230272, PubMed:28525742). In response to DNA damage, PARP9-DTX3L complex is required for efficient non-homologous end joining (NHEJ), the complex function is negatively modulated by PARP9 activity (PubMed:28525742). Dispensable for B-cell receptor (BCR) assembly through V(D)J recombination and class switch recombination (CSR) (By similarity). In macrophages, positively regulates pro-inflammatory cytokines production in response to IFNG stimulation by suppressing PARP14-mediated STAT1 ADP-ribosylation and thus promoting STAT1 phosphorylation (PubMed:27796300). Also suppresses PARP14-mediated STAT6 ADP-ribosylation (PubMed:27796300). {ECO:0000250|UniProtKB:Q8CAS9, ECO:0000269|PubMed:16809771, ECO:0000269|PubMed:23230272, ECO:0000269|PubMed:26479788, ECO:0000269|PubMed:27796300, ECO:0000269|PubMed:28525742}.
Molecular Weight:	96.3 kDa
UniProt:	Q8IXQ6

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	12 months