Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 009-001-GM8

PARP1 (N-term ZF1) Control Protein

Overview

Description:	PARP1 (N-term ZF1) Control Protein - 009-001-GM8
Item No.:	009-001-GM8
Size:	25 µg
Applications:	SDS-PAGE, WB
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	PARP1 is the primary member of the poly(ADP-ribose) polymerase family, whose function is to signal DNA damage (and to recruit repair proteins) by PARylation. PARP1 is also involved in multiple cell death pathways, including apoptosis, necroptosis, autophagy, and a relatively new pathway termed parthanatos. PARP1 can also promote tissue survival by shifting the balance of cell death programs between autophagy and necrosis. Clinical studies have shown vulnerability to PARP inhibitors in DNA repair defective cancers. PARP1-ZF is useful for researchers interested in cellular processes including DNA damage, transcriptional control, and stem cell identity research.
Synonyms:	Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, ARTD1, NAD(+) ADP-ribosyltransferase 1, ADPRT 1, PPOL
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	PARP1
Purity/Specificity:	PARP1 (N-term ZF1) is an N-terminus His-Tag recombinant protein expressed in E.coli that corresponds to a fragment of the human PARP1 zinc finger domain. Analysis by SDS-PAGE and Coomassie staining resulted in ~13 kDa MW band and estimated purity ≥90%.
Relevant Links:	• UniProtKB - P09874

Application Details

Tested Applications:	SDS-PAGE, WB
Application Note:	PARP1 (N-term ZF1) protein has been tested in SDS-Protein and western blot and is suitable as a control for immunological assays that use Anti-PARP1-ZF (RABBIT) Antibody (200-401-GM8). Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 13 kDa in size corresponding to PARP-1 by western blotting.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

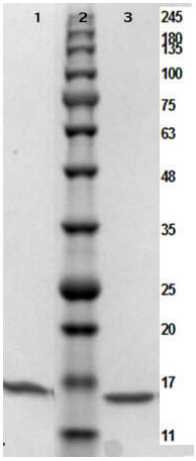
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by modified Lowry assay
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10% (v/v) Glycerol

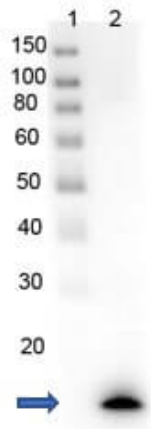
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable 2 - 3 weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



SDS-PAGE
SDS-PAGE results of PARP1 (N-term ZF1) Control Protein. Lane 1: reduced PARP1 N-Term ZF1 protein. Lane 2: Opal Prestained Molecular Weight Ladder (p/n MB-210-0500). Lane 3: non-reduced PARP1 N-Term ZF1 protein. Load: 1µg. 4-20% Lonza SDS-PAGE; Coomassie Stained; BioRad ChemiDoc Imaged.



Western Blot
Western Blot of recombinant PARP1 with rabbit anti-PARP1 (N-term ZF1) antibody. Lane 1: PARP1-Zinc Finger domain recombinant protein. Load: 0.05 µg per lane. Primary antibody: PARP1 (N-term ZF1) antibody at 1µg/mL for overnight at 4°C. Secondary antibody: HRP Gt-a-rabbit secondary antibody (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 13 kDa for rPARP1 (N-term ZF1). Other band(s): none.

Disclaimer