

Datasheet for 200-301-I03**PARP Antibody****Overview**

Description:	Anti-PARP (MOUSE) Monoclonal Antibody - 200-301-I03
Item No.:	200-301-I03
Size:	100 µg
Applications:	FC, IF, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-PARP antibody detects human PARP. The poly (ADP-ribose) polymerase (PARP) is involved in cell recovery from DNA damage, such as methylation of N3-adenine, which activates the base excision repair process. PARP [Poly (ADP-ribose) polymerase] is a 116 kDa nuclear chromatin-associated enzyme that is cleaved during apoptosis by caspase-3 into a 24 kDa fragment containing the DNA binding domain and an 89 kDa fragment containing the catalytic and automodification domains. The 24 kDa-fragment irreversibly bind to DNA and may contribute to the irreversibility of apoptosis by blocking the access of DNA repair enzymes to DNA strand breaks. Anti-PARP antibody is ideal for investigators involved in Apoptosis, DNA damage and Repair research.
Synonyms:	ADPRT, PPOL, Poly [ADP-ribose] polymerase 1, PARP-1, 2.4.2.30, ADP-ribosyltransferase diphtheria toxin-like 1, ARTD1, NAD(+) ADP-ribosyltransferase 1, ADPRT 1, Poly[ADP-ribose] synthase 1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	194C1439
Format:	IgG2b

Target Details

Gene Name:	PARP1
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
Immunogen:	PARP Antibody was produced in mice prepared by repeated immunizations with a peptide containing amino acids near the 214/215 cleavage site of human PARP protein.
Purity/Specificity:	Anti-PARP Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-PARP from human based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-PARP from other sources has not been determined.
Relevant Links:	• UniProtKB - P09874 • NCBI - NP_001609.2 • GeneID - 142

Application Details

Tested Applications:	FC, IF, WB
Application Note:	Anti-PARP antibody is tested for use in WB, Flow, Flow-IC, and ICC/IF. Expect a band approximately 89kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	1-3 µg/test
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

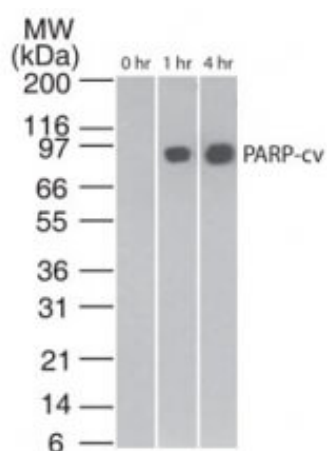
Shipping & Handling

Shipping Condition:	Dry Ice
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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 for several 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



Western Blot

Western Blot of Mouse Anti-PARP antibody. Lane 1-4hr: Cleaved PARP in staurosporine-treated Jurkat cells. Primary antibody: PARP antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for PARP. Other band (s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.