Website: thermofisher.com
Customer Service (US): 1 800 955 6288 ext. 1
Technical Support (US): 1 800 955 6288 ext. 441
thermofisher.com/contactus

Performance guaranteed

PARP1 Polyclonal Antibody

Catalog Number **PA1-38414**

Product data sheet

Details	
Size	1 mL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Synthetic peptide derived from the N-terminus of human PARP protein
Conjugate	Unconjugated
Form	Liquid
Concentration	0.2
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.6, with 1% BSA
Contains	<0.1% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human

Tested Applications	Dilution *
Immunohistochemistry (Paraffin) (IHC (P))	1:100
Western Blot (WB)	1 µg/mL

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

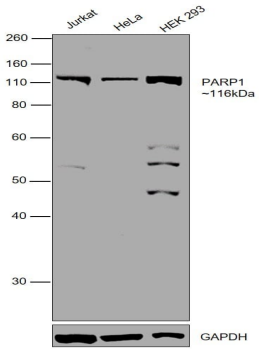
This antibody is predicted to react with bovine, chicken, amphibian, mouse and rat based on sequence homology. Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 10 min at room temperature. A suggested positive control is tonsil tissue.

Background/Target Information

Poly ADP-Ribose Polymerase (PARP) uses nicotinamide adenine dinucleotide (oxidized form) NAD as a substrate to catalyse the transfer of ADP-ribose to a variety of nuclear protein acceptors. Proteolysis of PARP to its stable 85kDa fragment is an early marker of programmed cell death (apoptosis) and is mediated by the caspase CPP32 protein. Cleavage occurs between Adp216 and Gly217, a site in PARP conserved across species.

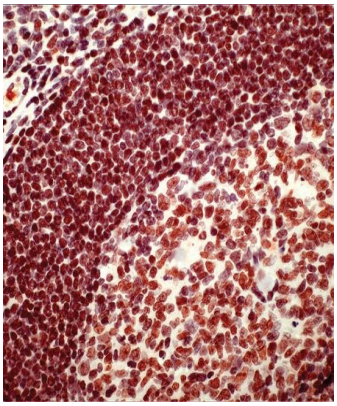
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Product Images For PARP1 Polyclonal Antibody



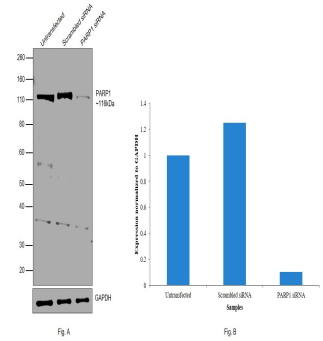
PARP1 Antibody (PA1-38414) in WB

Western blot was performed using Anti-PARP Polyclonal Antibody(Product # PA1-38414) and a 116kDa band corresponding to PARP was observed across all tested cell lines. Nuclear enriched extracts (30 µg lysate) of Jurkat (Lane 1), HeLa (Lane 2), HEK-293 (Lane 3) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg /mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036,1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



PARP1 Antibody (PA1-38414) in IHC (P)

Immunohistochemical (paraffin) analysis of Poly ADP-Ribose Polymerase using anti-Poly ADP-Ribose Polymerase Polyclonal Antibody (Product # PA5-32561) in Tonsil Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:100.



PARP1 Antibody (PA1-38414) in WB

Knockdown of PARP was achieved by transfecting HEK-293 with PARP specific siRNAs (Silencer® select Product # S1098, S1099). Western blot analysis (Fig. a) was performed using Nuclear enriched extracts from the PARP knockdown cells (lane 3), non-targeting scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with PARP Polyclonal Antibody (Product # PA1-38414, 1 µg/mL) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to PARP.

Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

thermofisher.com/contactus