

PARP1 Polyclonal Antibody

Catalog NumberPA1-38414

Product data sheet

Details		Species Reactivity	
Size	1 mL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100
Type	Antibody	Western Blot (WB)	1 µg/mL
Immunogen	Synthetic peptide derived from the N-terminus of human PARP protein	* 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.	
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.		

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

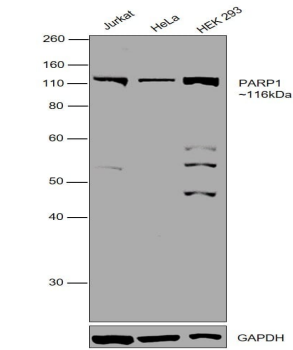
Poly ADP-Ribose Polymerase (PARP) uses nicotinamide adenine dinucleotide (oxidized form) NAD as a substrate to catalyse the transfer of ADP-ribose to a variety of nuclear protein acceptors. Proteolysis of PARP to its stable 85kDa fragment is an early marker of programmed cell death (apoptosis) and is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

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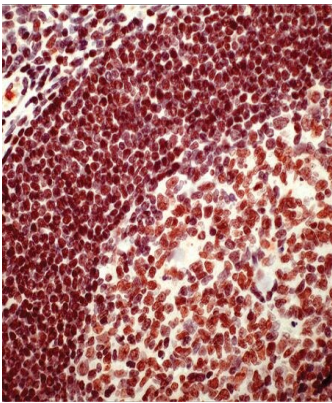
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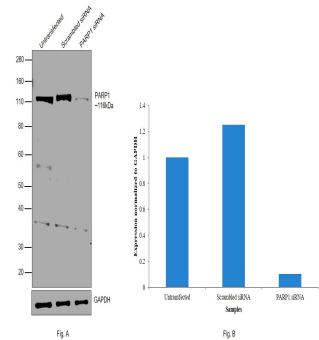
PARP1 Antibody (PA1-38414) in WB

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.

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