



PARP1 Polyclonal Antibody

Product Details		
Size	500 μL	
Species Reactivity	Human, Mouse, Rat	
Published Species	Human, Mouse	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	A synthetic peptide for the N-terminal region of human PARP	
Form	Liquid	
Concentration	1 mg/mL	
Purification	Protein A	
Storage buffer	PBS, pH 7.4, with 0.2% BSA	
Contains	0.09% sodium azide	
Storage conditions	4° C	
RRID	AB_10978793	

Applications	Tested Dilution	Publications
Western Blot (WB)	1 μg/mL	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20	1 Publication
Immunocytochemistry (ICC/IF)	2 μg/mL	1 Publication

Product Specific Information

PA5-16452 targets PARP (Poly ADP-Ribose Polymerase) in IHC (P) and WB applications and shows reactivity with mouse, Rat, and Human samples.

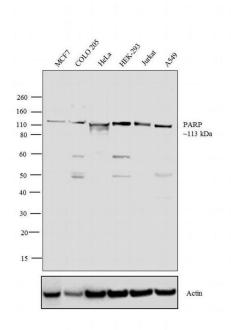
The PA5-16452 immunogen is a synthetic peptide for the N-terminal region of human PARP.

Product Images For PARP1 Polyclonal Antibody



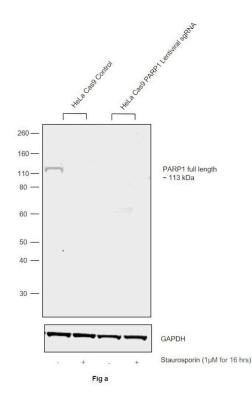
PARP1 Antibody (PA5-16452)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis of PARP using PARP Polyclonal Antibody (Product # PA5-16452) shows increased expression of Cleaved PARP in HeLa and Jurkat cell line upon Staurosporine treatment. {TM}



PARP1 Antibody (PA5-16452) in WB

Western blot analysis was performed on nuclear enriched extracts (30 µg lysate) of MCF7 (Lane 1), COLO 205 (Lane 2), HeLa (Lane 3), HEK-293 (Lane 4), Jurkat (Lane 5) and A549 (Lane 6). The blots were probed with Anti-PARP Rabbit Polyclonal Antibody (Product # PA5-16452, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 113 kDa band corresponding to PARP was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # El0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with PierceTM Power Blotter System (Product # 22834). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



PARP1 Antibody (PA5-16452)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in HeLa Cas9 cell line transduced with PARP1 Lentiviral sgRNA compared to control cell line using Anti-PARP1 Polyclonal Antibody (Product # PA5-16452). {KO}

View more figures on thermofisher.com

☐ 7 References

Western Blot (4)

International journal of radiation biology

Improved radiosynthesis of ¹²³I-MAPi, an auger theranostic agent.

"PA5-16452 was used in Western Blotting to explore new method to synthesize 123I-MAPi in high activity yields (AY) and improved molar activities to facilitate clinical translation and multicenter trials."

Authors: Wilson TC, Jannetti SA, Guru N, Pillarsetty N, Reiner T, Pirovano G

Year 2023

Species Human

Dilution 1:1000

Molecular imaging

[¹⁸F]PARPi Imaging Is Not Affected by HPV Status In Vitro.

"PA5-16452 was used in Western Blotting to explore whether HPV affects functional biomarkers, including H2AX, RAD51, and PARP1."

Authors: Guru N, Demétrio De Souza França P, Pirovano G, Huang C, Patel SG, Reiner T

Year 2021

Species Human

Dilution 1:1000

View more WB references on thermofisher.com

Immunohistochemistry (1)

Nature biomedical engineering

Validation of the use of a fluorescent PARP1 inhibitor for the detection of oral, oropharyngeal and oesophageal epithelial cancers.

"PA5-16452 was used in Western Blot, Immunohistochemistry to report the validation, in animal models and a human, of the use of a previously described fluorescently labelled small-molecule inhibitor of the DNA repair enzyme poly(ADP-ribose) polymerase 1 (PARP1) for the detection of cancers of the oral cavity, pharynx and oesophagus."

Authors: Kossatz S,Pirovano G,Demétrio De Souza França P,Strome AL,Sunny SP,Zanoni DK,Mauguen A,Carney B, Brand C,Shah V,Ramanajinappa RD,Hedne N,Birur P,Sihag S,Ghossein RA,Gönen M,Strome M,Suresh A,Molena D, Ganly I,Kuriakose MA,Patel SG,Reiner T

Year 2020

Species Human

Immunohistochemistry (Paraffin) (1)

Tissue engineering. Part C, Methods

Generation of Homogenous Three-Dimensional Pancreatic Cancer Cell Spheroids Using an Improved Hanging Drop Technique.

"PA5-16452 was used in immunohistochemistry - paraffin section to study the generation of homogenous threedimensional pancreatic cancer cell spheroids and their improved hanging drop technique"

Authors: Ware MJ,Colbert K,Keshishian V,Ho J,Corr SJ,Curley SA,Godin B

Year 2016

More applications with references on thermofisher.com

ICC/IF (1)

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