

PARP1 Polyclonal Antibody

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	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

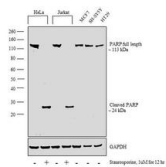
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20	1 Publication
Immunocytochemistry (ICC/IF)	2 µg/mL	1 Publication

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

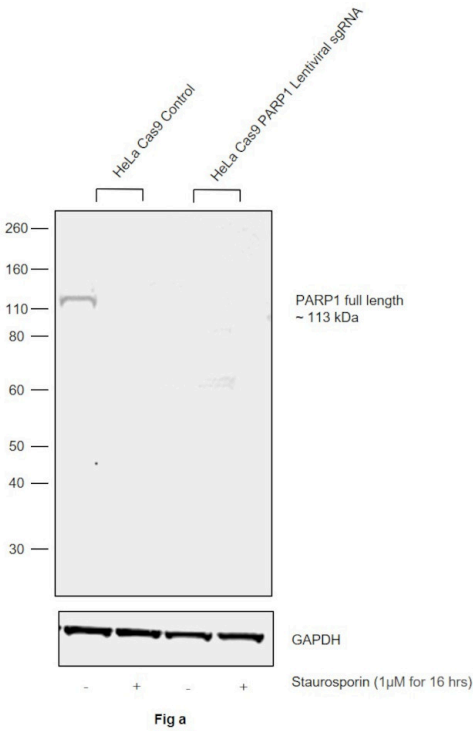


PARP1 Antibody (PA5-16452)

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}

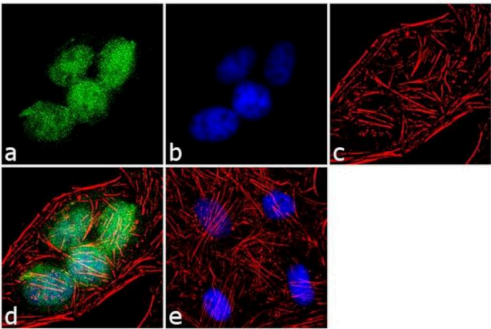
PARP1 Antibody (PA5-16452)

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}



PARP1 Antibody (PA5-16452) in ICC/IF

Immunofluorescence analysis of PARP was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with PARP (Poly ADP-Ribose Polymerase) Rabbit Polyclonal Antibody (Product # PA5-16452) at 2µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.



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Western Blot (4)

<p>International journal of radiation biology</p> <p>Improved radiosynthesis of ¹²³I-MAPi, an auger theranostic agent.</p> <p>"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."</p> <p>Authors: Wilson TC,Jannetti SA,Guru N,Pillarsetty N,Reiner T,Pirovano G</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:1000</p>
<p>Molecular imaging</p> <p>[¹⁸F]PARPi Imaging Is Not Affected by HPV Status In Vitro.</p> <p>"PA5-16452 was used in Immunocytochemistry, Immunohistochemistry (Paraffin), Western Blot to explore whether HPV affects functional biomarkers, including H2AX, RAD51, and PARP1."</p> <p>Authors: Guru N,Demétrio De Souza França P,Pirovano G,Huang C,Patel SG,Reiner T</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:1000</p>

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Immunohistochemistry (1)

<p>Nature biomedical engineering</p> <p>Validation of the use of a fluorescent PARP1 inhibitor for the detection of oral, oropharyngeal and oesophageal epithelial cancers.</p> <p>"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."</p> <p>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</p>	<p>Year 2020</p> <p>Species Human</p>
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Immunohistochemistry (Paraffin) (1)

<p>Tissue engineering. Part C, Methods</p> <p>Generation of Homogenous Three-Dimensional Pancreatic Cancer Cell Spheroids Using an Improved Hanging Drop Technique.</p> <p>"PA5-16452 was used in immunohistochemistry - paraffin section to study the generation of homogenous three-dimensional pancreatic cancer cell spheroids and their improved hanging drop technique"</p> <p>Authors: Ware MJ,Colbert K,Keshishian V,Ho J,Corr SJ,Curley SA,Godin B</p>	<p>Year 2016</p>
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ICC/IF (1)

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