Nur für Forschungszwecke

PARP1 Monoklonaler Antikörper

Katalog-Nr.:66520-1-Ig Vorgestelltes Produkt 66 Publikationen

proteintech®
Antibodies | ELISA kits | Proteins
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Allgemeine Informationen

Katalog-Nr.:
66520-1-Ig

Größe:
150ul , Konzentration: 960 μg/ml von Nanodrop und 500 μg/ml durch die Bradford-Methode mit BSA als Standard;

Wirt:
Maus

Isotyp:
IgG1

Immunogen Katalognummer:
AG19173

GenBank-Zugangsnummer:
BC037545

GeneID (NCBI):
142

Vollständiger Name:
poly (ADP-ribose) polymerase 1

Berechneté Masse:
1014 aa, 113 kDa

Beobachteté Masse:
113-116 kDa, 85-89 kDa

Reinigungsmethode:
Protein-G-Reinigung

CloneNo.:
1D7D4

Empfohlene Verdünnungen:
WB 1:5000-1:50000
IP 0.5-4.0 ug für IP und 1:5000-1:50000 für WB
IHC 1:100-1:1200
IF 1:2000-1:8000

Anwendungen

Geprüfte Anwendungen:
FC, IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:
CoIP, IF, IHC, IP, WB

Getestete Reaktivität:
Human, Maus, Ratte

Zitierte Arten:
Huhn, Human, Maus, Ratte, Zebrafisch

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : Jurkat-Zellen, HeLa-Zellen, NIH/3T3-Zellen, RAW 264.7-Zellen, ROS1728-Zellen

IP : K-562-Zellen,

IHC : humanes Lungenkarzinomgewebe, humanes Mammakarzinomgewebe, Maushodengewebe, Maus-Kolongewebe, Ratten-Kolongewebe

IF : Neuro-2a-Zellen, HeLa-Zellen

Hintergrundinformationen

PARP1 (poly(ADP-ribose) polymerase 1) is a nuclear enzyme catalyzing the poly(ADP-ribosyl)ation of many key proteins in vivo. The normal function of PARP1 is the routine repair of DNA damage. Activated by DNA strand breaks, the PARP1 is cleaved into an 85 to 89-kDa COOH-terminal fragment and a 24-kDa NH2-terminal peptide by caspases during the apoptotic process. The appearance of PARP fragments is commonly considered as an important biomarker of apoptosis. In addition to caspases, other proteases like calpains, cathepsins, granzymes and matrix metalloproteinases (MMPs) have also been reported to cleave PARP1 and gave rise to fragments ranging from 42-89-kDa. This antibody was generated against the N-terminal region of human PARP1 and it recognizes the full-length as well as the cleavage of the PARP1.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Yingjie Qing	34603598	Oxid Med Cell Longev	WB
Pranjal Kumar	36120580	Front Cell Dev Biol	WB
Wei Liao	34776939	Front Pharmacol	WB

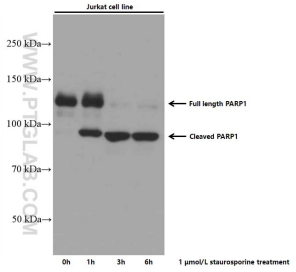
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

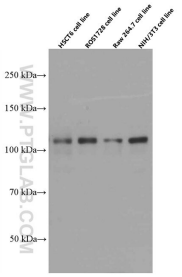
*** 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

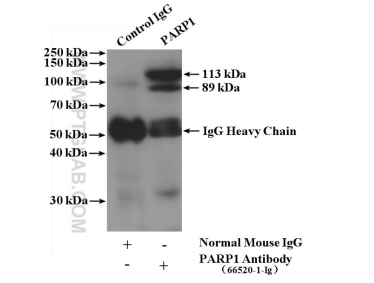
Ausgewählte Validierungsdaten



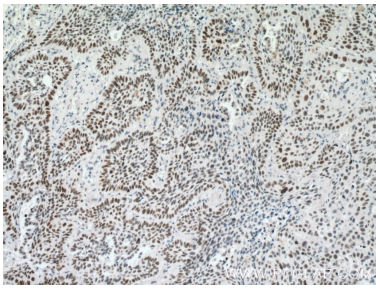
Jurkat cells (20 µg/lane) treated with staurosporine were subjected to SDS PAGE followed by western blot with 66520-1-Ig (PARP1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



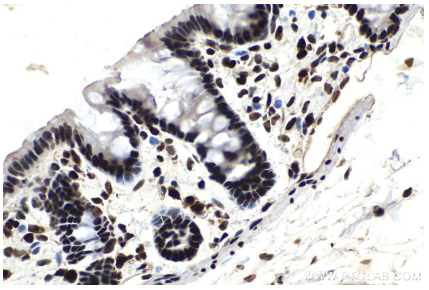
Various lysates were subjected to SDS PAGE followed by western blot with 66520-1-Ig (PARP1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



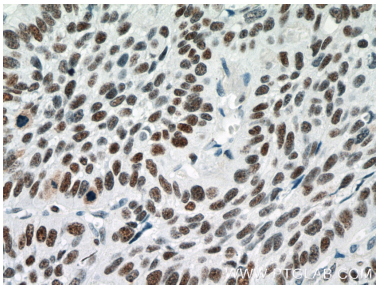
IP result of anti-PARP1 (IP:66520-1-Ig, 5ug; Detection:66520-1-Ig 1:10000) with K-562 cells lysate 2760 ug.



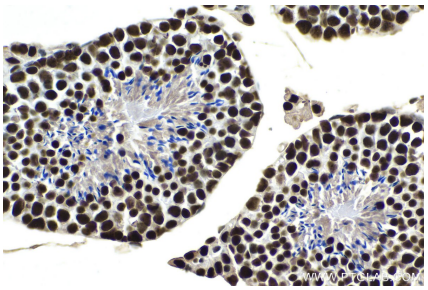
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



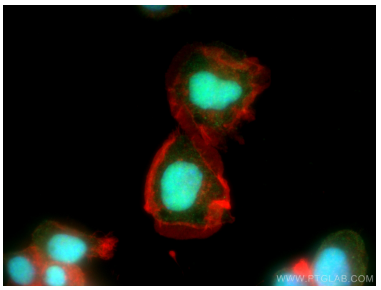
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



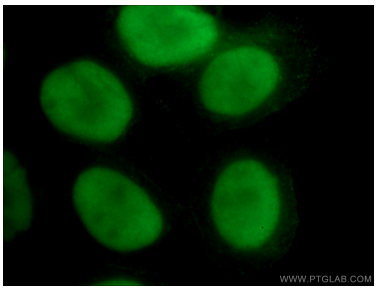
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



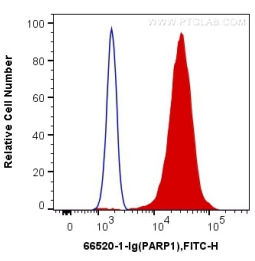
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

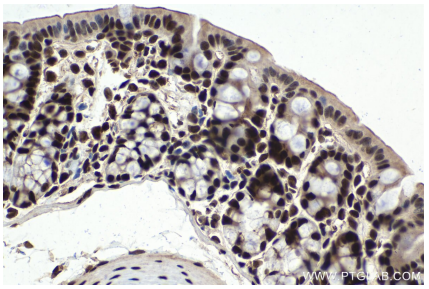


Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using PARP1 antibody (66520-1-Ig, Clone: 1D7D4) at dilution of 1:4000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 66520-1-Ig (PARP1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).





1X10^6 HeLa cells were intracellularly stained with 0.2 ug Anti-Human PARP1 (66520-1-Ig, Clone:1D7D4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).

Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).