À des fins de recherche uniquement

Anticorps Monoclonal anti-PARP1

Numéro de catalogue:66520-1-Ig Phare 69 Publications

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Antibodies | ELISA kits | Proteins
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Informations de base

Numéro de catalogue:
66520-1-Ig

Taille:
150ul , Concentration: 960 μg/ml by Nanodrop and 500 μg/ml by Bradford method using BSA as the standard;

Hôte:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG19173

Numéro d'acquisition GenBank:
BC037545

Identification du gène (NCBI):
142

Nom complet:
poly (ADP-ribose) polymerase 1

MW calculé
1014 aa, 113 kDa

MW observés:
113-116 kDa, 85-89 kDa

Méthode de purification:
Purification par protéine G

CloneNo.:
1D7D4

Dilutions recommandées:
WB 1:5000-1:50000
IP 0.5-4.0 ug for IP and 1:5000-1:50000 for WB
IHC 1:100-1:1200
IF 1:2000-1:8000

Applications

Applications testées:
FC (Intra), IF, IHC, IP, WB, ELISA

Demandes citées:
CoIP, IF, IHC, IP, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, poisson-zèbre, poulet, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules Jurkat, cellules HeLa, cellules HSC-T6, cellules NIH/3T3, cellules RAW 264.7, cellules ROS1728

IP : cellules K-562,

IHC : tissu de cancer du poumon humain, tissu de cancer du sein humain, tissu de côlon de rat, tissu de côlon de souris, tissu testiculaire de souris

IF : cellules Neuro-2a, cellules HeLa

Informations générales

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.

Publications notables

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

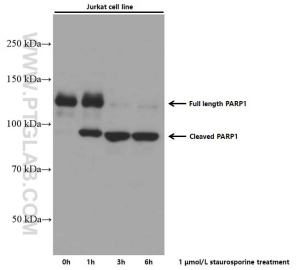
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

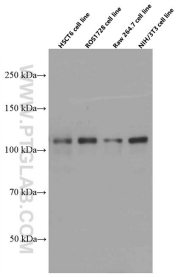
*** Les 20ul contiennent 0,1% de BSA.

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

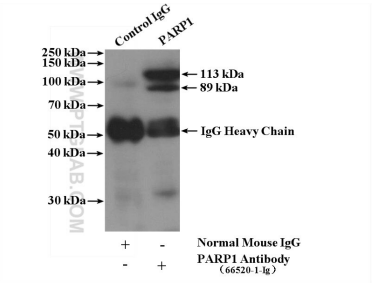
Données de validation sélectionnées



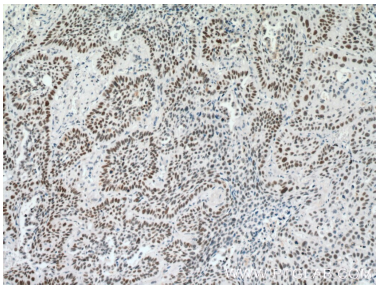
Jurkat cells (20 µg/lane) treated with staurosporine were subjected to SDS PAGE followed by western blot with 66520-1-Ig (PARP1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



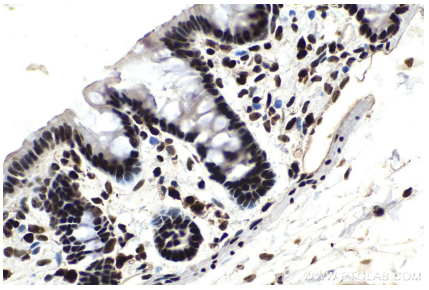
Various lysates were subjected to SDS PAGE followed by western blot with 66520-1-Ig (PARP1 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



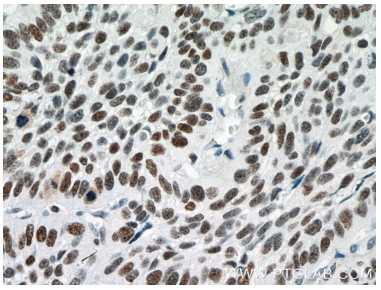
IP result of anti-PARP1 (IP:66520-1-Ig, 5ug; Detection:66520-1-Ig 1:10000) with K-562 cells lysate 2760 ug.



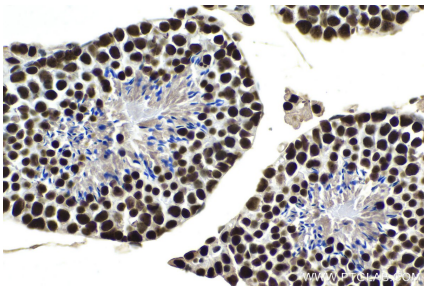
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



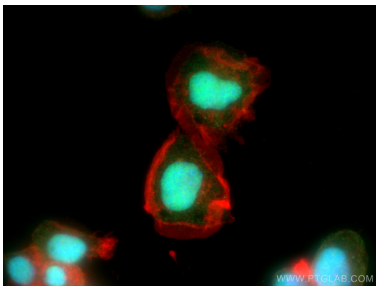
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



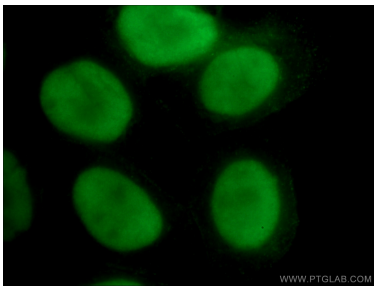
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



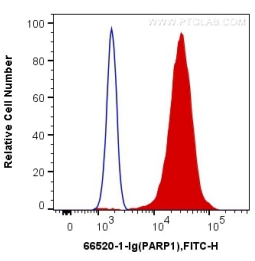
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66520-1-Ig (PARP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

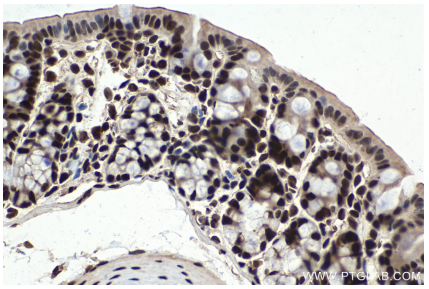


Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using PARP1 antibody (66520-1-Ig, Clone: 1D7D4) at dilution of 1:4000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



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).