For Research Use Only

Cleaved PARP1 Monoclonal antibody

Catalog Number:60555-1-lg

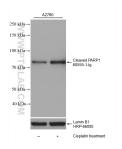


| Basic Information | Catalog Number:GenBank Accession60555-1-lgBC037545Size:GeneID (NCBI):1000 ug/ml142 | | Number: | umber: Purification Method: Protein G purification | |
|-------------------|---|---|--|---|--|
| | | | | CloneNo.: 4G4C8 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:500-1:2000 | |
| | | | | | |
| | Source: Mouse | UNIPROT ID: P09874 Full Name: poly (ADP-ribose) polymerase 1 Calculated MW: 1014 aa, 113 kDa | | | |
| | Isotype: IgG1 | | | | |
| | | | | | |
| | | Observed MW: 89 kDa | | | |
| Applications | Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA Species Specificity: human, mouse, rat | | Positive Controls: WB : A2780 cells, HSC-T6 cells, mouse splenocytes, Staurosporine treated A2780 cells, Staurosporine treated HSC-T6 cells, Staurosporine treated mouse splenocytes | | |
| | | | | | Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 |
| | IHC : Jurkat cells, | | | | |
| | IF/ICC : 1 μ M Staurosporine (3 hours) treated HSC-T6 cells, 1 μ M Staurosporine (3 hours) treated HeLa cells | | | | |
| | Background Information | 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 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 give rise to fragments ranging from 42-89 kDa. This antibody only recognizes the cleaved form of PAPR1 but not full-length PARP1. | | | |
| Storage | Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20° | 50% glycerol pH 7.3. | | | |

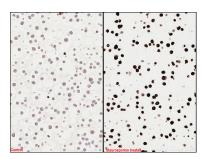
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

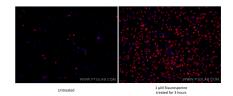
Selected Validation Data



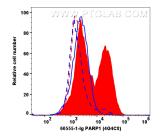
Staurosporine treated and untreated A2780 cells were subjected to SDS PAGE followed by western blot with 60555-1-1g (Cleaved PARP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 (HRP-66095) antibody as a loading control.



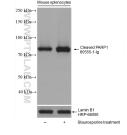
Immunohistochemical analysis of paraffinembedded Jurkat (left) and Staurosporine treated Jurkat (right) cells slide using 60555-1-1g (Cleaved PARP1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



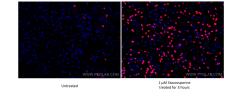
Immunofluorescent analysis of (4% PFA) fixed untreated and 1 μ M Staurosporine (3 hours) treated HSC-T6 cells using Cleaved PARP1 antibody (60555-1-lg, Clone: 4G4C8) at dilution of 1:1000 and Multi-rAb Coralite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



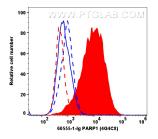
1x 10^6 HSC-T6 cell (dash lines) and 1 μ M Staurosporine (3 hours) treated HSC-T6 cells (full lines) were intracellularly stained with 0.4 μ g Cleaved PARP1 Monoclonal Antibody (60555-1-Ig, Clone:4G4C8, red) and Coralite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA.



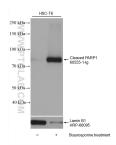
Staurosporine treated and untreated mouse splenocytes were subjected to SDS PAGE followed by western blot with 60555-1-1g (Cleaved PARP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with HRP-conjugated Lamin B1 (HRP-66095) antibody as a loading control.



Immunofluorescent analysis of (4% PFA) fixed untreated and 1 μ M Staurosporine (3 hours) treated HeLa cells using Cleaved PARP1 antibody (60555-1-lg, Clone: 4G4C8) at dilution of 1:366 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



1x10^6 HeLa cell (dash lines) and 1 μ M Staurosporine (3 hours) treated HeLa cells (full lines) were intracellularly stained with 0.1 μ g Cleaved PARP1 Monoclonal Antibody (60555-1-1g, Clone:4G4C8, red) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse 1gG1 isotype control (66360-1-1g, Clone: 1F8D3, blue) was parallel stained as control. Cells were fixed with 4% PFA .



Staurosporine treated and untreated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 60555-1-1g (Cleaved PARP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 (HRP-66095) antibody as a loading control.