Leader in Biomolecular Solutions for Life Science

Cleaved PARP1 p25 Rabbit mAb

Catalog No.: A19612

Recombinant | 32 Publications

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Basic Information

Observed MW
25 kDa

Calculated MW
113 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, ELISA

Cross Reactivity
Human, Mouse

Clone No.
ARC0091

Background

This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl) transferase, which modifies various nuclear proteins by poly(ADP-ribosyl) ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes.

Recommended Dilutions

WB	1:10000 - 1:40000
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
142

Swiss-Prot
P09874

Immunogen
A synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
PARP; PARS; PPOL; ADPRT; ARTD1; ADPRT1; PARP-1; ADPRT 1; pADPRT-1; Poly-PARP; Cleaved PARP1 p25

Contact

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Product Information

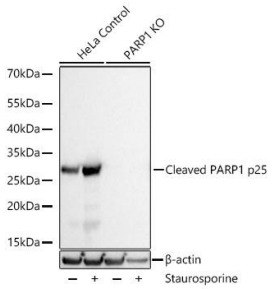
Source
Rabbit

Isotype
IgG

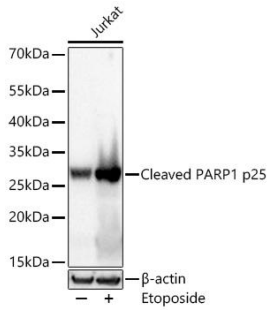
Purity
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

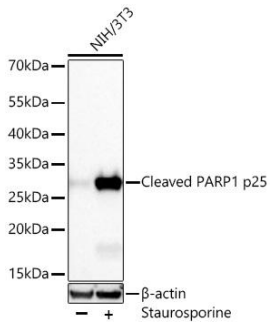
Validation Data



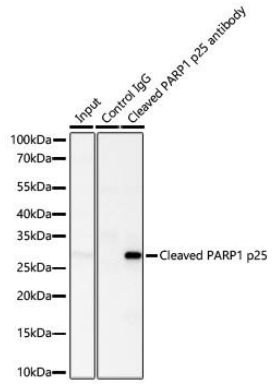
Western blot analysis of lysates from wild type (WT) and Cleaved PARP1 p25 knockout (KO) cells using Cleaved PARP1 p25 Rabbit mAb (A19612) at 1:10000 dilution incubated at room temperature for 1.5 hours. Wild type (WT) and PARP1 knockout (KO) HeLa cells were treated with Staurosporine(1 μM) at 37℃ for 6 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Western blot analysis of lysates from Jurkat cells using Cleaved PARP1 p25 Rabbit mAb (A19612) at 1:10000 dilution incubated at room temperature for 1.5 hours. Jurkat cells were treated with Etoposide (25 μM) at 37℃ for 5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Western blot analysis of lysates from NIH/3T3 cells using Cleaved PARP1 p25 Rabbit mAb (A19612) at 1:10000 dilution incubated at room temperature for 1.5 hours. NIH /3T3 cells were treated with Staurosporine(1 μM) for 3 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunoprecipitation of Cleaved PARP1 p25 from 600 μg extracts of Jurkat cells was performed using 2 μg of Cleaved PARP1 p25 Rabbit mAb (A19612). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Cleaved PARP1 p25 Rabbit mAb (A19612) at a dilution of 1:1000.