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Cleaved PARP (Asp214) Rabbit mAb

Catalog No.: A27147 Recombinant 2 Publications

Basic Information

Observed MW
89 kDa

Calculated MW
113 kDa

Category
Primary antibody

Applications
WB,Auto WB,IF/ICC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC66728

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	1:5000 - 1:30000
Auto WB	1:50 - 1:100
IF/ICC	1:2000 - 1:6000
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
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

Contact

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Product Information

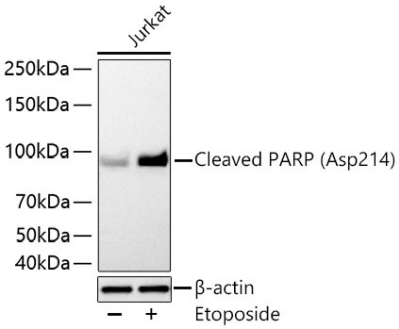
Source
Rabbit

Isotype
IgG

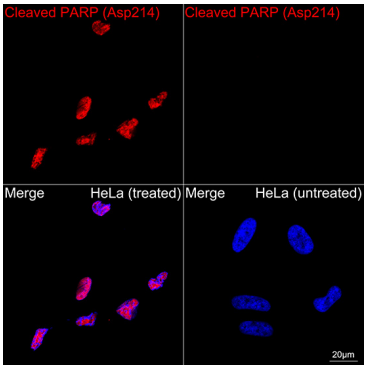
Purification
Affinity purification

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.

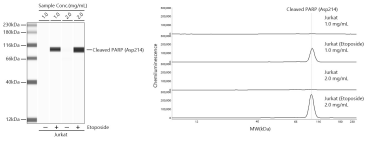
Validation Data



Western blot analysis of lysates from Jurkat cells using Cleaved PARP (Asp214) Rabbit mAb (A27147) at 1:21000 dilution incubated at room temperature for 1.5 hours. Jurkat cells were treated with Etoposide (30 µM) at 37℃ for overnight.
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: 5 s.



Confocal imaging of HeLa cells (treated with Staurosporine) and HeLa cells (untreated) cells using Cleaved PARP (Asp214) Rabbit mAb (A27147, dilution 1:4200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Simple Western™ analysis of lysates from Jurkat cells using Cleaved PARP (Asp214) Rabbit mAb (A27147) at 1:50 dilution. Jurkat cells were treated with Etoposide (30 µM) at 37℃ for overnight. The virtual lane view (left) shows the target band (as indicated) with samples in concentrations of 1.0 mg/mL and 2.0 mg/mL. The corresponding electropherogram view (right) plots chemiluminescence intensity against molecular weight along the capillary for sample concentrations of 1.0 mg/mL and 2.0 mg/mL. This experiment was performed under reducing conditions on the Jess™ Simple Western instrument from ProteinSimple, a BioTechne brand, using the 12-230 kDa separation module.