For Research Use Only

Cleaved PARP1 (Asp214), p25 Recombinant monoclonal antibody, PBS Only

Catalog Number:85175-6-PBS

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Basic Information

Catalog Number:
85175-6-PBS

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC037545

GeneID (NCBI):
142

UNIPROT ID:
P09874

Full Name:
poly (ADP-ribose) polymerase 1

Calculated MW:
1014 aa, 113 kDa

Observed MW:
25 kDa

Purification Method:
Protein A purification

CloneNo.:
253204E4

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

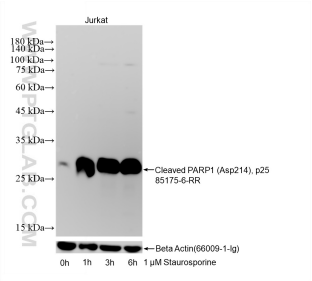
PARP1 (poly(ADP-ribose) polymerase 1) is a nuclear enzyme catalyzing the poly(ADP-ribosyl)ation of many key proteins in vivo. The normal function of PARP1 is the routine repair of DNA damage. Activated by DNA strand breaks, the PARP1 is cleaved into an 85 to 89-kDa COOH-terminal fragment and a 24 kDa 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 smaller cleaved form of PAPR1 (around 25 kDa) but not full-length PARP1.

Storage

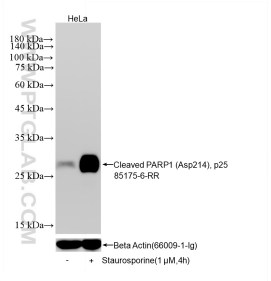
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

Selected Validation Data



Non-treated Jurkat cells and Staurosporine-treated Jurkat cells were subjected to SDS PAGE followed by western blot with 85175-6-RR (Cleaved PARP1 (Asp214), p25 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta-Actin (66009-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 85175-6-PBS in a different storage buffer formulation.



Non-treated HeLa cells and Staurosporine-treated HeLa cells were subjected to SDS PAGE followed by western blot with 85175-6-RR (Cleaved PARP1 (Asp214), p25 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta-Actin (66009-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 85175-6-PBS in a different storage buffer formulation.