

Anti-Cleaved PARP1 Antibody [JE00-15]

HA722218



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Green monkey
Applications:	WB
Molecular Wt:	Predicted band size: 27 kDa
Clone number:	JE00-15

Description: Poly (ADP-ribose) polymerase (PARP) is a family of proteins involved in a number of cellular processes such as DNA repair, genomic stability, and programmed cell death. The main role of PARP (found in the cell nucleus) is to detect and initiate an immediate cellular response to metabolic, chemical, or radiation-induced single-strand DNA breaks (SSB) by signaling the enzymatic machinery involved in the SSB repair. Once PARP detects a SSB, it binds to the DNA, undergoes a structural change, and begins the synthesis of a polymeric adenosine diphosphate ribose (poly (ADP-ribose) or PAR) chain, which acts as a signal for the other DNA-repairing enzymes. Target enzymes include DNA ligase III (LigIII), DNA polymerase beta (pol β), and scaffolding proteins such as X-ray cross-complementing gene 1 (XRCC1). After repairing, the PAR chains are degraded via Poly(ADP-ribose) glycohydrolase (PARG). PARP enzymes are essential in a number of cellular functions, including expression of inflammatory genes: PARP1 is required for the induction of ICAM-1 gene expression by cardiac myocytes and smooth muscle cells, in response to TNF.

Immunogen: Synthetic peptide within human PARP1 aa 164-213.

Positive control: Jurkat cell lysate, Jurkat treated with 1 μ M staurosporine for 3 hours cell lysate, HeLa cell lysate, Neuro-2a cell lysate, NIH/3T3 cell lysate, COS-1 cell lysate.

Subcellular location: Nucleus.

Database links: SwissProt: P09874 Human | P11103 Mouse | P27008 Rat

Recommended Dilutions:

WB 1:2,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4 $^{\circ}$ C. Store at +4 $^{\circ}$ C short term (1-2 weeks). Store at -20 $^{\circ}$ C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

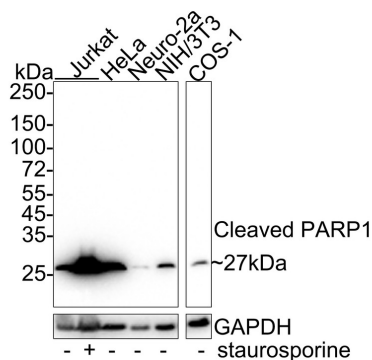
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Cleaved PARP1 on different lysates with Rabbit anti-Cleaved PARP1 antibody (HA722218) at 1/2,000 dilution.



Lane 1: Jurkat cell lysate

Lane 2: Jurkat treated with 1 μ M staurosporine for 3 hours cell lysate

Lane 3: HeLa cell lysate

Lane 4: Neuro-2a cell lysate

Lane 5: NIH/3T3 cell lysate

Lane 6: COS-1 cell lysate

Lysates/proteins at 20 μ g/Lane.

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722218) at 1/2,000 dilution was used in 5% NFDM/TBST at 4 $^{\circ}$ C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Peh J et al. The Combination of Vemurafenib and Procaspace-3 Activation Is Synergistic in Mutant BRAF Melanomas. *Mol Cancer Ther* 15:1859-69 (2016).
2. Gao L et al. Glycyrrhizic acid alleviates bleomycin-induced pulmonary fibrosis in rats. *Front Pharmacol* 6:215 (2015).

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