

# Product Datasheet

## PARP Antibody (194C1439) - Cleaved - BSA Free NB100-56599

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 10

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**NB100-56599**

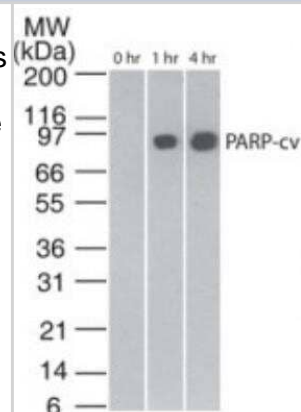
PARP Antibody (194C1439) - Cleaved - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	194C1439
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	142
Gene Symbol	PARP1
Species	Human, Mouse, Rat (Negative)
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29622764). Rat negative reported via customer review.
Specificity/Sensitivity	This monoclonal antibody specifically detects a 89-kDa cleavage fragment containing the catalytic and auto modification domain.
Immunogen	This antibody was developed by immunizing mice with a synthetic peptide containing amino acids near 214/215-cleavage site of human PARP.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 1 - 2 ug/mL, Flow Cytometry, Immunocytochemistry/Immunofluorescence 2-5 ug/ml, Flow (Intracellular) 1 - 10 ug/1x10 <sup>6</sup> cells

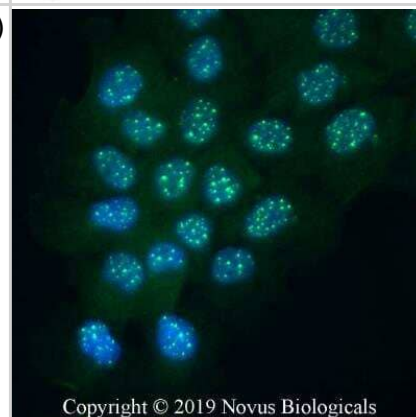


## Images

Western Blot: PARP Antibody (194C1439) - Cleaved [NB100-56599] - Analysis of cleaved PARP in staurosporine-treated Jurkat cells at various time points, antibody at 2 ug/mL. The band corresponding to cleaved PARP is only seen in the treated samples. Anti-mouse Ig HRP conjugate was used in this test.

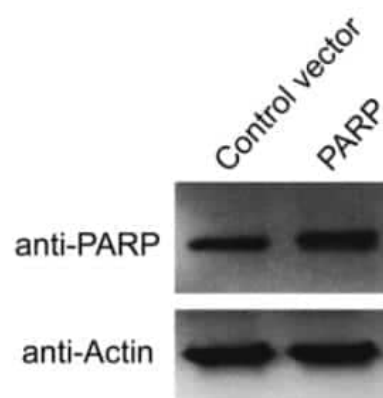


Immunocytochemistry/Immunofluorescence: PARP Antibody (194C1439) - Cleaved [NB100-56599] - A431 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-PARP Antibody (194C1439) at 5 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



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Western Blot: PARP Antibody (194C1439) - Cleaved [NB100-56599] - Analysis using 293T lysates expressing PARP. Image from verified customer review.



## Publications

Wang S, Chang CW, Huang J et al. Gasdermin C sensitizes tumor cells to PARP inhibitor therapy in cancer models The Journal of clinical investigation 2023-10-26 [PMID: 37883181] (WB, Human)

Szabó V, Csákány-Papp N, Görög M et al. Orai1 calcium channel inhibition prevents progression of chronic pancreatitis JCI insight 2023-05-25 [PMID: 37227782] (IHC-P, Human, Mouse)

Details:  
Dilution 1:200

Erdogan S, Turkekul K Neferine inhibits proliferation and migration of human prostate cancer stem cells through p38 MAPK/JNK activation Food Biochem 2020-05-11 [PMID: 32394497] (WB, Human)

Details:  
Citation using the Azide Free format of this antibody.

Melao A, Spit M, Cardoso BA, Barata JT Optimal interleukin-7 receptor-mediated signaling, cell cycle progression and viability of T-cell acute lymphoblastic leukemia cells rely on casein kinase 2 activity. Haematologica. 2016-11-01 [PMID: 27470599] (WB)

Details:  
Citation using the Azide Free version of this antibody.

Mega Tiber P, Kocyigit Sevinc S, Kilinc O, Orun O Biological effects of whole Z.Officinale extract on chronic myeloid leukemia cell line K562. Gene. 2019-04-15 [PMID: 30684525] (WB, Human)

Details:  
Citation using the Azide free version of this antibody.

Dou X, Li S, Hu L et al. Glutathione disulfide sensitizes hepatocytes to TNFa-mediated cytotoxicity via IKK-b S-glutathionylation: a potential mechanism underlying non-alcoholic fatty liver disease. Exp. Mol. Med. 2018-04-06 [PMID: 29622764] (WB, Mouse)

Kamal A, Sreekanth K, Kumar PP et al. Synthesis and potential cytotoxic activity of new phenanthrylphenol-pyrrolobenzodiazepines. Eur J Med Chem. 2010-06-01 [PMID: 20171761]

Details:  
Products cited for western blot: 1. PARP (IMG-401A): MCF-7 cells treated with numerous compounds, Fig 7. 2. B-Tubulin (IMG-5180A): MCF-7 cells treated with PP-PBDs, Fig 6 and Fig 7. 3. Cytochrome C (IMG-101A): MCF-7 cells treated with numerous compounds,

Chen YC, Shen SC, Lin HY. Rutinoside at C7 attenuates the apoptosis-inducing activity of flavonoids. Biochem Pharmacol. 2003-10-01 [PMID: 14505793]

Ko CH, Shen SC, Chen YC. Hydroxylation at C4' or C6 is essential for apoptosis-inducing activity of flavanone through activation of the caspase-3 cascade and production of reactive oxygen species. Free Radic Biol Med. 2004-04-01 [PMID: 15019974]

Chen YC, Shen SC, Lee WR et al. Emodin induces apoptosis in human promyeloleukemic HL-60 cells accompanied by activation of caspase 3 cascade but independent of reactive oxygen species production. Biochem Pharmacol. 2002-12-15 [PMID: 12445860]





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### **Products Related to NB100-56599**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NBP2-27335APC	PARP Antibody (194C1439) [Allophycocyanin] - Cleaved

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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