

Datasheet for ABIN968333

anti-PARP1 antibody (AA 22-219)

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Overview

Quantity:	150 µg
Target:	PARP1
Binding Specificity:	AA 22-219
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PARP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human PARP aa. 22-219
Clone:	42-PARP
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	PARP1
Alternative Name:	PARP (PARP1 Products)
Background:	<p>Poly(ADP-ribose) polymerase (PARP) is a constitutively expressed, abundant nuclear protein. It has been referred to as a molecular nick sensor due to its recognition of, and catalytic activation by, single or double strand DNA breaks. The most critical and extensively studied role of PARP is its participation in DNA base excision repair. Following binding to damaged DNA, PARP uses NAD⁺ to synthesize branched polymers of poly(ADP-ribose) on nuclear target proteins, including itself. Such modification of PARP increases its negative charge and results in loss of interaction with DNA due to electrostatic repulsion. This opens the damaged DNA to DNA repair proteins. The poly(ADP-ribose) molecule is quickly degraded by poly (ADP-ribose) glycohydrolase that is found in association with PARP. PARP contains N-terminal DNA-binding domain (DBD), a central automodification domain that accepts poly (ADP-ribose), and a C-terminal catalytic domain. PARP is one of the earliest proteins targeted by caspase-3 during apoptosis. Although this protein is central to DNA repair, it has additional DNA-related functions that remain to be investigated. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	113 kDa
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , DNA Damage Repair , Production of Molecular Mediator of Immune Response , Maintenance of Protein Location

Application Details

Comment:	Related Products: ABIN968537 , ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20° C.
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Publications

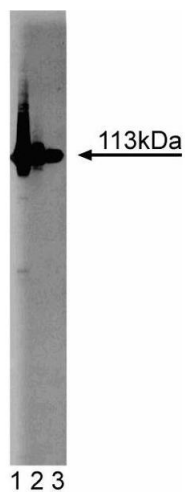
Product cited in:	Jaiswal, Marlow, Gupta, Narayan: "Beta-catenin-mediated transactivation and cell-cell adhesion pathways are important in curcumin (diferuylmethane)-induced growth arrest and apoptosis in colon cancer cells." in: Oncogene , Vol. 21, Issue 55, pp. 8414-27, (2002) (PubMed).
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Liao, Chien, Shenoy, Mendel, McMahon, Cherrington, London: "Inhibition of constitutively active forms of mutant kit by multitargeted indolinone tyrosine kinase inhibitors." in: **Blood**, Vol. 100, Issue 2, pp. 585-93, (2002) ([PubMed](#)).

Saitoh, Pizzi, Wang: "Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358." in: **The Journal of biological chemistry**, Vol. 277, Issue 7, pp. 4755-63, (2002) ([PubMed](#)).

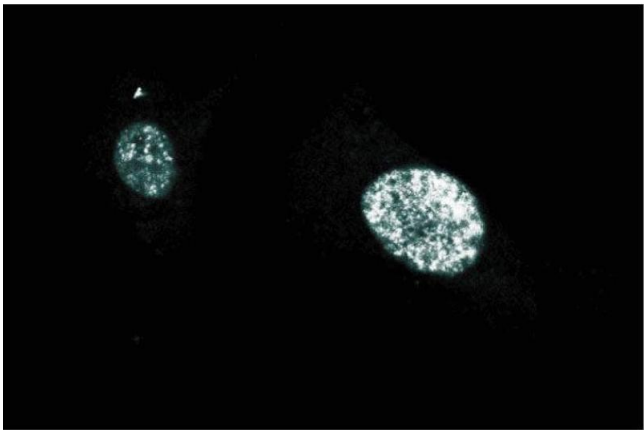
Duriez, Shah: "Cleavage of poly(ADP-ribose) polymerase: a sensitive parameter to study cell death." in: **Biochemistry and cell biology = Biochimie et biologie cellulaire**, Vol. 75, Issue 4, pp. 337-49, (1998) ([PubMed](#)).

Cherney, McBride, Chen, Alkhatib, Bhatia, Hensley, Smulson: "cDNA sequence, protein structure, and chromosomal location of the human gene for poly(ADP-ribose) polymerase." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 84, Issue 23, pp. 8370-4, (1988) ([PubMed](#)).



Western Blotting

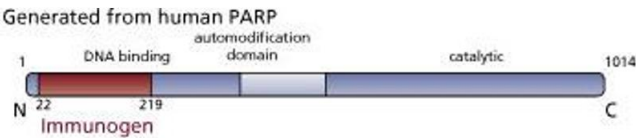
Image 1. Western blot analysis of PARP on Jurkat cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-PARP antibody.



Immunofluorescence

Image 2. Immunofluorescent staining on BC3H1 cells

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968333.