



Datasheet for ABIN677903
anti-PARP1 antibody (AA 201-300)



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Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | PARP1 |
| Binding Specificity: | AA 201-300 |
| Reactivity: | Human, Mouse, Rat, Chicken |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PARP1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

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|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human PARP1 |
| Isotype: | IgG |
| Cross-Reactivity: | Chicken, Human, Mouse, Rat |
| Predicted Reactivity: | Dog,Cow |
| Purification: | Purified by Protein A. |

Target Details

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|---------|-------|
| Target: | PARP1 |
|---------|-------|

Target Details

Alternative Name: PARP1 ([PARP1 Products](#))

Background: Synonyms: PARP, PPOL, ADPRT, ARTD1, ADPRT1, PARP-1, ADPRT 1, pADPRT-1, Poly [ADP-ribose] polymerase 1, ADP-ribosyltransferase diphtheria toxin-like 1, NAD(+) ADP-ribosyltransferase 1, Poly[ADP-ribose] synthase 1, PARP1

Background: Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribose)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. Mediates the poly(ADP-ribose)ation of APLF and CHFR. Positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. With EEF1A1 and TXK, forms a complex that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production. Required for PARP9 and DTX3L recruitment to DNA damage sites. PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites.

Gene ID: 142

UniProt: [P09874](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [DNA Damage Repair](#), [Production of Molecular Mediator of Immune Response](#), [Maintenance of Protein Location](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

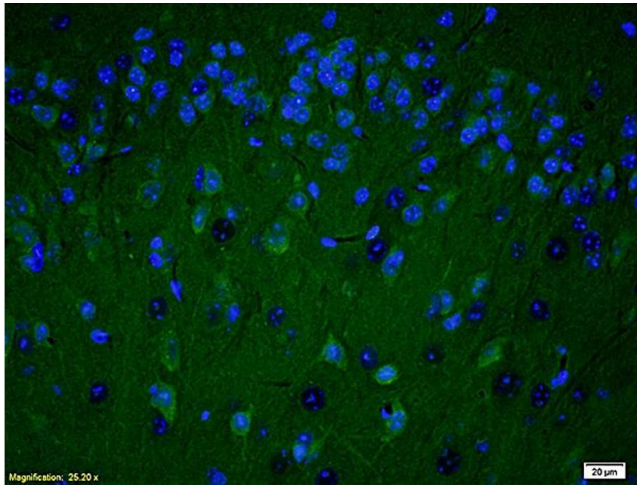
Format: Liquid

Handling

| | |
|--------------------|--|
| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

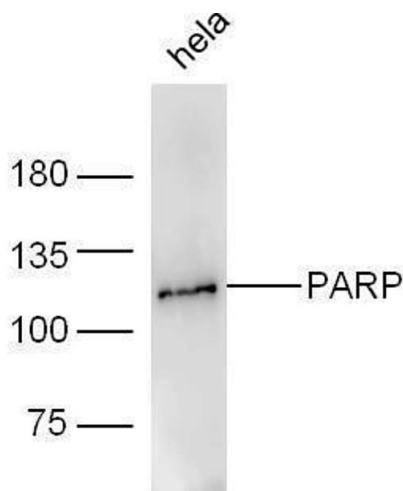
Publications

| | |
|-------------------|---|
| Product cited in: | <p>Omar, Aly, Badae: "Vitamin E improves testicular damage in streptozocin-induced diabetic rats, via increasing vascular endothelial growth factor and poly(ADP-ribose) polymerase-1." in: Andrologia, (2017) (PubMed).</p> <p>Yang, Lu, Guo: "Platelet-rich plasma protects rat chondrocytes from interleukin-1β-induced apoptosis." in: Molecular medicine reports, Vol. 14, Issue 5, pp. 4075-4082, (2016) (PubMed).</p> <p>Ma, Liu, Wang, Liu, Chen, Valle, Zuo, Xia, Liu: "Crucial Role of Lateral Size for Graphene Oxide in Activating Macrophages and Stimulating Pro-inflammatory Responses in Cells and Animals." in: ACS nano, Vol. 9, Issue 10, pp. 10498-515, (2015) (PubMed).</p> <p>Zhou, Zhang, Li, Hao, Liu, Wang: "Azithromycin synergistically enhances anti-proliferative activity of vincristine in cervical and gastric cancer cells." in: Cancers, Vol. 4, Issue 4, pp. 1318-32, (2013) (PubMed).</p> |
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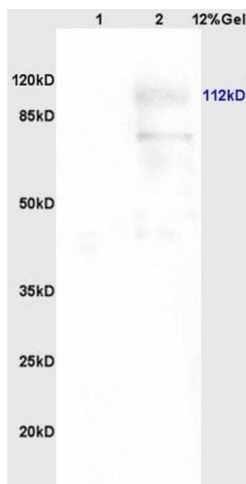
Immunofluorescence

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti PARP (N-Terminus) Polyclonal Antibody, Unconjugated (ABIN677903) at 1:200 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, FITC conjugated used at 1:200 dilution for 40 minutes at 37°C and DAPI



Western Blotting

Image 2. Human HeLa lysates probed with Rabbit Anti-PARP1 Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.



SDS-PAGE

Image 3. Lane 1: human colon carcinoma lysates Lane 2: rat brain lysates probed with Anti PARP (N-Terminus) Polyclonal Antibody, Unconjugated (ABIN677903) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 112kD. Observed band size: 112kD.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN677903.