

Anti-Poly (ADP-Ribose) Polymer antibody ab14460

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Overview

| | |
|----------------------------|---|
| Product name | Anti-Poly (ADP-Ribose) Polymer antibody |
| Description | Chicken polyclonal to Poly (ADP-Ribose) Polymer |
| Host species | Chicken |
| Specificity | This antibody recognizes Poly (ADP-Ribose) Polymer synthesized by a variety of poly(ADP-ribose) polymerases (PARP)-related enzymes, including PARP1, 2, 3, tankyrase, vPARP, sPARP and others. It does not cross-react with ADP-ribose, 5'-AMP, or yeast RNA as tested by ELISA. It does cross-react to bovine serum albumin due to its use as a carrier for the immunogen. |
| Tested applications | Suitable for: ICC/IF, IHC-Fr, WB, ELISA, IHC-P |
| Species reactivity | Reacts with: Human, Species independent |
| Immunogen | Other Immunogen Type corresponding to Poly (ADP-Ribose) Polymer. Purified Poly (ADP-Ribose) Polymer mixed with methylated bovine serum albumin. |
| General notes | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 0.316% Tris HCl, 0.87% Sodium chloride |
| Purity | IgY fraction |
| Clonality | Polyclonal |
| Isotype | IgY |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab14460 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

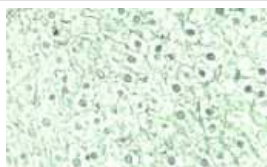
| Application | Abreviews | Notes |
|-------------|-----------|--|
| ICC/IF | ★★★★★ (1) | 1/200. |
| IHC-Fr | | Use at an assay dependent concentration. |
| WB | ★★★★★ (1) | Use a concentration of 1 - 10 µg/ml. Predicted molecular weight: 1 kDa. |
| ELISA | | Use at an assay dependent concentration. It is recommended to start with a 1/100 dilution. |
| IHC-P | | Use at an assay dependent concentration. |

Target

Relevance

Poly (ADP-Ribose) is a polymer synthesized by a class of enzymes named poly(ADP-ribose) polymerases (PARP). Using NAD⁺ as substrate, PARP catalyzes the formation of the polymer poly (ADP-Ribose), with chain lengths ranging from 2 to 300 residues, containing approximately 2% branching in the chain. Poly (ADP-Ribose) polymer becomes attached to nuclear proteins, and to PARP itself (automodification). Under normal conditions, cells display low basal level of poly (ADP-Ribose) polymer, which can dramatically increase in cells exposed to DNA damaging agents (irradiation, alkylation, etc.). This increase of polymer synthesis is usually transient and is followed by a rapid degradation phase with a short half life which can be less than 1 min. The low endogenous level of polymer in unstimulated cells and its rapid catabolism during DNA damage has been ascribed to high activity of the polymer catabolizing enzyme poly(ADP-ribose) glycohydrolyase (PARG).

Images



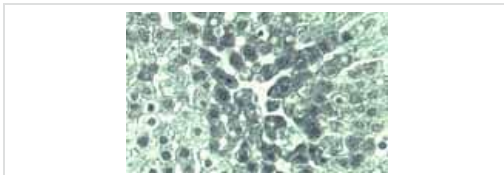
Immunohistochemistry (Frozen sections) - Anti-Poly (ADP-Ribose) Polymer antibody (ab14460)

Poly (ADP-Ribose) Polymer staining of untreated rat liver, with ab14460 at a concentration of 20µg/ml.



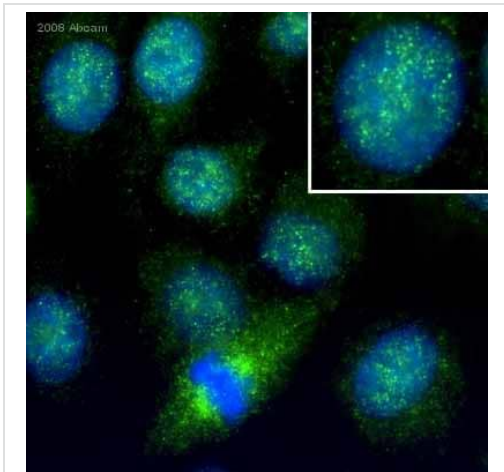
Western blot - Anti-Poly (ADP-Ribose) Polymer antibody (ab14460)

Western blot analysis of Poly (ADP-Ribose) Polymer. Lane 1: control HL60 cells (75,000 cells). Lane 2: cells automodified with PARP1. Note the apparent shift in molecular weight PARP1 from 116kDa to a broad range >250kDa due to various extents of Poly (ADP-Ribose) Polymer automodification. ab14460 was used at a concentration of 10 µg/ml.



Immunohistochemistry (Frozen sections) - Anti-Poly (ADP-Ribose) Polymer antibody (ab14460)

Poly (ADP-Ribose) Polymer staining of livers from rats injected with diethylnitrosamine (200 mg/kg). The livers were removed and rapidly processed 10 hr later, at peak polymer induction. ab14460 was used at a concentration of 20µg/ml



Immunocytochemistry/ Immunofluorescence - Anti-Poly (ADP-Ribose) Polymer antibody (ab14460)

This image is courtesy of an Abreview submitted by Dr Alexander Rapp

ab14460 staining cultured human HeLa cells by ICC/IF. Cells were PFA fixed and permeabilized in 0.5% Triton X100 prior to blocking in 5% BSA for 1 hour at 20°C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 20°C. A Cy5® conjugated donkey anti-chicken antibody diluted 1/300 was used as the secondary.

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