abcam

Product datasheet

Anti-Poly (ADP-Ribose) Polymer antibody [10H] ab14459

15 Abreviews 56 References 1 Image

Overview

Product name	Anti-Poly (ADP-Ribose) Polymer antibody [10H]
Description	Mouse monoclonal [10H] to Poly (ADP-Ribose) Polymer
Host species	Mouse
Specificity	This antibody reacts with 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. The antibody does not cross-react with ADP-ribose, 5'-AMP, or yeast RNA as tested by ELISA.
Tested applications	**Suitable for:** IHC-Fr
Species reactivity	**Reacts with:** Species independent
Immunogen	Other Immunogen Type conjugated to bovine serum albumin. Poly (ADP-Ribose) polymer mixed with methylated bovine serum albumin.
Positive control	Rat liver induced for Poly (ADP-Ribose) Polymer synthesis by injection with diethylnitrosamine. MEF's treated with 500um Hydrogen Peroxide.
General notes	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. 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

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: 0.242% Tris, 0.87% Sodium chloride, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	10H
Myeloma	NS1
Isotype	IgG3
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab14459 in the following tested applications.

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

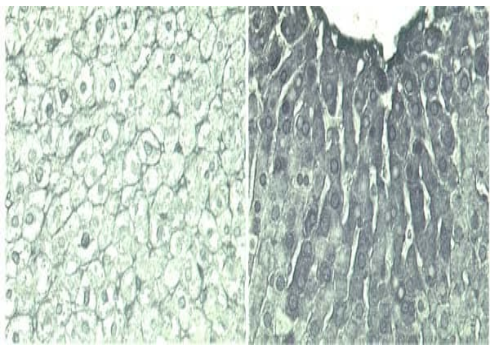
Application	Abreviews	Notes
IHC-Fr	(1)	Use at an assay dependent concentration.

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 [10H] (ab14459)

Immunohistochemistry of rat livers treated with diethylnitrosamine (200 mg/kg) and stained with ab14459 diluted 1/100. After treatment livers were removed and rapidly processed 10 hr later, at peak polymer induction. Left hand side image was from diethylnitrosamine untreated liver tissue and right one represents DEN treated sections.

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