

# PARP-14 (L-16): sc-82970

## BACKGROUND

Poly(ADP-ribosylation) is a method of DNA damage-dependent posttranslational modification that helps to rescue injured proliferating cells from cell death. The PARP (Poly [ADP-ribose] polymerase) proteins comprise a superfamily of enzymes that functionally modify histones and other nuclear proteins, thereby preventing cell death. PARPs use NAD<sup>+</sup> as a substrate to catalytically transfer ADP-ribose residues onto protein acceptors; a process that, when repeated multiple times, leads to the formation of poly(ADP-ribose) chains on the protein. The presence of these chains alters the function of the target protein and promotes cell survival. PARP proteins are implicated in a variety of diseases, including cancer, neurodegenerative and inflammatory disorders.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PARP14 (human) mapping to 3q21.1; Parp14 (mouse) mapping to 16 B3.

## SOURCE

PARP-14 (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PARP-14 of human origin.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82970 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82970 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PARP-14 (L-16) is recommended for detection of PARP-14 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other PARP family members.

PARP-14 (L-16) is also recommended for detection of PARP-14 in additional species, including bovine.

Suitable for use as control antibody for PARP-14 siRNA (h): sc-76056, PARP-14 siRNA (m): sc-76057, PARP-14 shRNA Plasmid (h): sc-76056-SH, PARP-14 shRNA Plasmid (m): sc-76057-SH, PARP-14 shRNA (h) Lentiviral Particles: sc-76056-V and PARP-14 shRNA (m) Lentiviral Particles: sc-76057-V.

PARP-14 (L-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **PARP-14 (C-1): sc-377150**, our highly recommended monoclonal alternative to PARP-14 (L-16).