

PARP-14 (H-68): sc-292108

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⁺ 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.

CHROMOSOMAL LOCATION

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

SOURCE

PARP-14 (H-68) is a rabbit polyclonal antibody raised against amino acids 291-358 mapping within an internal region of PARP-14 of human origin.

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-292108 X, 200 µg/0.1 ml.

STORAGE

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

APPLICATIONS

PARP-14 (H-68) is recommended for detection of PARP-14 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

PARP-14 (H-68) is also recommended for detection of PARP-14 in additional species, including equine and porcine.

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.

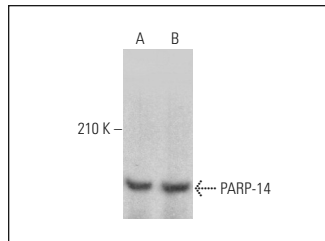
PARP-14 (H-68) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Positive Controls: SK-N-SH cell lysate: sc-2410 or U-251-MG whole cell lysate: sc-364176.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PARP-14 (H-68): sc-292108. Western blot analysis of PARP-14 expression in SK-N-SH (A) and U-251-MG (B) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at 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 (H-68).