

PARP-16 (O-25): sc-130837

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. PARP-16 is a 322 amino acid poly(ADP-ribose) polymerase protein localized to the membrane. Expressed as three isoforms produced by alternative splicing, PARP-16 contains one PARP catalytic domain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PARP16 (human) mapping to 15q22.31; Parp16 (mouse) mapping to 9 C.

RESEARCH USE

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

SOURCE

PARP-16 (O-25) is a purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of PARP-16 of mouse origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

PARP-16 (O-25) is recommended for detection of PARP-16 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PARP-16 siRNA (h): sc-76060, PARP-16 siRNA (m): sc-76061, PARP-16 shRNA Plasmid (h): sc-76060-SH, PARP-16 shRNA Plasmid (m): sc-76061-SH, PARP-16 shRNA (h) Lentiviral Particles: sc-76060-V and PARP-16 shRNA (m) Lentiviral Particles: sc-76061-V.

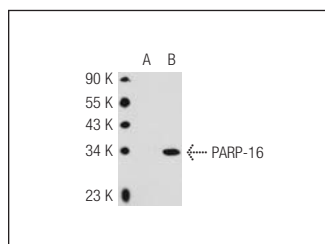
Molecular Weight of PARP-16: 36 kDa.

Positive Controls: PARP-16 (m): 293T Lysate: sc-122385.

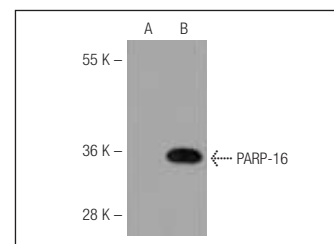
RECOMMENDED SECONDARY REAGENTS

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).

DATA



PARP-16 (O-25): sc-130837. Western blot analysis of PARP-16 expression in non-transfected: sc-117752 (A) and mouse PARP-16 transfected: sc-122385 (B) 293T whole cell lysates.



PARP-16 (O-25): sc-130837. Western blot analysis of PARP-16 expression in non-transfected (A) and human PARP-16 transfected (B) 293 whole cell lysates.

STORAGE

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