

# PARP-6 (P-22): sc-130839

## 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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- Chou, H.Y., Chou, H.T. and Lee, S.C. 2006. CDK-dependent activation of poly(ADP-ribose) polymerase member 10 (PARP-10). *J. Biol. Chem.* 281: 15201-15207.
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- Elser, M., Borsig, L., Hassa, P.O., Erenre, S., Messner, S., Valovka, T., Keller, S., Gassmann, M. and Hottiger, M.O. 2008. Poly(ADP-ribose) polymerase 1 promotes tumor cell survival by coactivating hypoxia-inducible factor-1-dependent gene expression. *Mol. Cancer Res.* 6: 282-290.
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## CHROMOSOMAL LOCATION

Genetic locus: PARP6 (human) mapping to 15q23.

## SOURCE

PARP-6 (P-22) is a purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of PARP-6 of human origin.

## PRODUCT

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

## STORAGE

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

## APPLICATIONS

PARP-6 (P-22) is recommended for detection of PARP-6 of 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-6 siRNA (h): sc-76062, PARP-6 shRNA Plasmid (h): sc-76062-SH and PARP-6 shRNA (h) Lentiviral Particles: sc-76062-V.

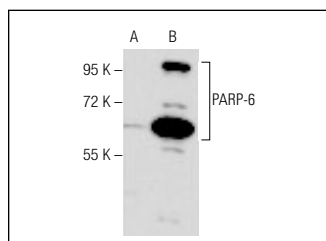
Molecular Weight of PARP-6 isoforms: 71/65/49 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

## 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-6 (P-22): sc-130839. Western blot analysis of PARP-6 expression in non-transfected (A) and human PARP-6 transfected (B) 293 whole cell lysates.

## 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.