

PINX1 (A-15): sc-67765

BACKGROUND

PINX1 (PIN2/TRF1-interacting protein X1), also known as LPTL or LPTS (liver-related putative tumor suppressor) is a ubiquitously expressed protein that localizes to nucleoli and telomere speckles. PINX1 contains one G-patch domain and one telomeric inhibiting domain (TID) at its C-terminus. PINX1 interacts with the telomere protein TRF1 and the telomerase reverse transcriptase TERT. The TID domain of PINX1 specifically interacts with TERT and functions to inhibit its activity, thus participating in the regulation of telomerase activity. Overexpression of PINX1 leads to shortened telomeres, further supporting an inhibitory role of PINX1 on telomerase activity. The depletion of PINX1 significantly increases telomerase activity and may lead to tumorigenicity of cancer cells. This suggests that PINX1 acts as a tumor suppressor and can inhibit cell proliferation. In addition, PINX1 is involved in nucleolar RNA maturation.

CHROMOSOMAL LOCATION

Genetic locus: PINX1 (human) mapping to 8p23.1; Pinx1 (mouse) mapping to 14 D1.

SOURCE

PINX1 (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PINX1 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.

Blocking peptide available for competition studies, sc-67765 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

PINX1 (A-15) is recommended for detection of PINX1 of mouse, rat 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).

PINX1 (A-15) is also recommended for detection of PINX1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PINX1 siRNA (h): sc-62814, PINX1 siRNA (m): sc-62815, PINX1 shRNA Plasmid (h): sc-62814-SH, PINX1 shRNA Plasmid (m): sc-62815-SH, PINX1 shRNA (h) Lentiviral Particles: sc-62814-V and PINX1 shRNA (m) Lentiviral Particles: sc-62815-V.

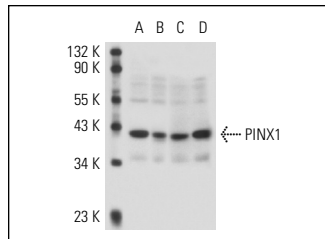
Molecular Weight of PINX1: 45 kDa.

Positive Controls: PINX1 (h): 293 Lysate: sc-113229, Jurkat whole cell lysate: sc-2204 or A-431 nuclear extract: sc-2122.

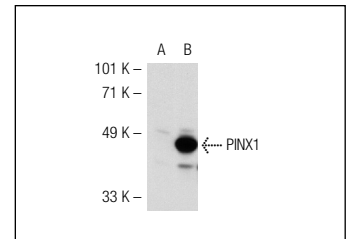
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



PINX1 (A-15): sc-67765. Western blot analysis of PINX1 expression in Jurkat (A), A-431 (B), A549 (C) and K-562 (D) nuclear extracts.



PINX1 (A-15): sc-67765. Western blot analysis of PINX1 expression in non-transfected 293: sc-110760 (A) and human PINX1 transfected 293: sc-113229 (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.



Try **PINX1 (D-3): sc-374113** or **PINX1 (E-9): sc-374115**, our highly recommended monoclonal alternatives to PINX1 (A-15).