

# PIDD (S-17): sc-32161

## BACKGROUND

PIDD (for p53 induced protein with a death domain) encodes a protein of 915 amino acids in mice (910 amino acids in humans) and contains seven tandem leucine rich repeats (LRR) in the amino-terminus and a death domain in the carboxy-terminus. PIDD mRNA is induced by  $\gamma$ -irradiation in a p53-dependent manner. The basal level of PIDD mRNA is also dependent on p53. Overexpression of PIDD inhibits cell growth in a p53-like manner by inducing apoptosis. Antisense inhibition of PIDD expression attenuated p53-mediated apoptosis suggesting that PIDD expression is required for apoptosis. PIDD localizes to the cytosol.

## REFERENCES

1. Lin, Y., et al. 2000. PIDD, a new death-domain-containing protein, is induced by p53 and promotes apoptosis. *Nat. Genet.* 26: 122-127.
2. Telliez, J.B., et al. 2000. LRDD, a novel leucine rich repeat and death domain containing protein. *Biochim. Biophys. Acta* 1478: 280-288.
3. Benchimol, S., et al. 2001. p53-dependent pathways of apoptosis. *Cell Death Differ.* 8: 1049-1051.

## CHROMOSOMAL LOCATION

Genetic locus: LRDD (human) mapping to 11p15.5; Lrdd (mouse) mapping to 7 F5.

## SOURCE

PIDD (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PIDD of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-32161 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PIDD (S-17) is recommended for detection of PIDD of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

PIDD (S-17) is also recommended for detection of PIDD in additional species, including bovine.

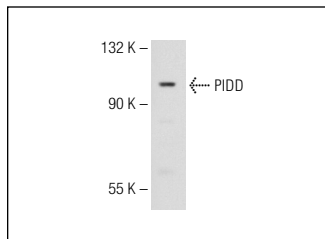
Suitable for use as control antibody for PIDD siRNA (h): sc-44656, PIDD siRNA (m): sc-44657, PIDD siRNA (r): sc-72107, PIDD shRNA Plasmid (h): sc-44656-SH, PIDD shRNA Plasmid (m): sc-44657-SH, PIDD shRNA Plasmid (r): sc-72107-SH, PIDD shRNA (h) Lentiviral Particles: sc-44656-V, PIDD shRNA (m) Lentiviral Particles: sc-44657-V and PIDD shRNA (r) Lentiviral Particles: sc-72107-V.

Molecular Weight of PIDD: 100 kDa.

## 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



PIDD (S-17): sc-32161. Western blot analysis of PIDD expression in 293T whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Niiizuma, K., et al. 2008. The PIDDosome mediates delayed death of hippocampal CA1 neurons after transient global cerebral ischemia in rats. *Proc. Natl. Acad. Sci. USA* 105: 16368-16373.
2. Ho, L.H., et al. 2008. Caspase-2 is required for cell death induced by cytoskeletal disruption. *Oncogene* 27: 3393-3404.
3. Jelínek, M., et al. 2013. Caspase-2 is involved in cell death induction by taxanes in breast cancer cells. *Cancer Cell Int.* 13: 42.

## STORAGE

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

## 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.



Try **PIDD (B-5): sc-514981**, our highly recommended monoclonal alternative to PIDD (S-17).