

# PDSS2 (G-16): sc-74818

## BACKGROUND

Prenyl diphosphate synthase subunit 2 (PDSS2), also known as decaprenyl-diphosphate synthase subunit 2, decaprenyl pyrophosphate synthetase subunit 2 and candidate tumor suppressor protein, is a 399 amino acid member of the FPP/GGPP synthetase family. PDSS2 exists as a heterotetramer, with two PDSS2 and two PDSS1 subunits, and functions primarily as a candidate tumor suppressor protein. Defects in PDSS2 have been shown to cause coenzyme Q10 deficiency, an autosomal recessive disorder with three predominant phenotypes: a predominantly myopathic form with central nervous system involvement, an infantile encephalomyopathy with renal dysfunction and an ataxic form with cerebellar atrophy. Two isoforms of PDSS2 exist as a result of alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PDSS2 (human) mapping to 6q21; *Pdss2* (mouse) mapping to 10 B2.

## SOURCE

PDSS2 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PDSS2 of human origin.

## RESEARCH USE

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

## 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-74818 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-74818 X, 200 µg/0.1 ml.

## APPLICATIONS

PDSS2 (G-16) is recommended for detection of PDSS2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

PDSS2 (G-16) is also recommended for detection of PDSS2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PDSS2 siRNA (h): sc-76100, PDSS2 siRNA (m): sc-76101, PDSS2 shRNA Plasmid (h): sc-76100-SH, PDSS2 shRNA Plasmid (m): sc-76101-SH, PDSS2 shRNA (h) Lentiviral Particles: sc-76100-V and PDSS2 shRNA (m) Lentiviral Particles: sc-76101-V.

PDSS2 (G-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PDSS2: 44 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) 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **PDSS2 (C-12): sc-515137** or **PDSS2 (F-5): sc-515136**, our highly recommended monoclonal alternatives to PDSS2 (G-16).