

# PKDCC (T-15): sc-169300



The Power to Question

## BACKGROUND

PKDCC (protein kinase domain-containing protein, cytoplasmic) also known as protein kinase-like protein Sgk493, sugen kinase 493 or vertebrate lonesome kinase, is 493 amino acid protein belonging to the protein kinase superfamily. PKDCC is found in the Golgi apparatus and is involved in protein transport to the plasma membrane and is also important in ATP binding, nucleotide binding, protein kinase activity, transferase activity and is required for longitudinal bone growth through regulation of chondrocyte differentiation. The PKDCC gene is conserved in chimpanzee, dog, mouse, rat and zebrafish, and the PKDCC protein is ubiquitously expressed in human tissues. PKDCC is suggested to be associated with atopy and atopic individuals with asthma, however murine PKDCC knockouts show extreme phenotypes that are unrelated to atopy or asthma, suggesting an additional role in abnormal respiration.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PKDCC (human) mapping to 2p21; Pkdcc (mouse) mapping to 17 E4.

## SOURCE

PKDCC (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PKDCC 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-169300 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PKDCC (T-15) is recommended for detection of PKDCC 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).

PKDCC (T-15) is also recommended for detection of PKDCC in additional species, including bovine and porcine.

Suitable for use as control antibody for PKDCC siRNA (h): sc-94454, PKDCC siRNA (m): sc-153418, PKDCC shRNA Plasmid (h): sc-94454-SH, PKDCC shRNA Plasmid (m): sc-153418-SH, PKDCC shRNA (h) Lentiviral Particles: sc-94454-V and PKDCC shRNA (m) Lentiviral Particles: sc-153418-V.

Molecular Weight of PKDCC: 54 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

## 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.

## 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.