# PDZK1 (L-12): sc-27279



The Power to Question

## **BACKGROUND**

Proteins containing PDZ domains play a role in a wide array of biological functions including protein scaffolding, organization of ion channels, and signal transduction. The PDZ domain containing protein PDZK1 interacts with multiple targets, including MAP17 and cMOAT and also NaPi-lla, which implicates PDZK1 in ion channel formation. PDZK1 localizes to the plasma membrane of epithelial cells, where it is able to interact simultaneously with more than one type of channel, by utilizing its 4 PDZ domains, and thus acts as an adaptor between different cell surface receptors. Furthermore, PDZK1 is markedly upregulated in human carcinomas of epithelial origin, and the cluster formed by its association with cMOAT and MAP17 may potentially play role in multidrug resistance. Therefore, PDZK1 may be a new target for cancers cells resistance to chemotherapeutic agents.

## **REFERENCES**

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#### **CHROMOSOMAL LOCATION**

Genetic locus: PDZK1 (human) mapping to 1q21.1; Pdzk1 (mouse) mapping to 3 F2.1.

## **SOURCE**

PDZK1 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PDZK1 of human origin.

## **PRODUCT**

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

Blocking peptide available for competition studies, sc-27279 P, (100  $\mu$ g 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**

PDZK1 (L-12) is recommended for detection of PDZK1 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).

PDZK1 (L-12) is also recommended for detection of PDZK1 in additional species, including porcine.

Suitable for use as control antibody for PDZK1 siRNA (h): sc-106840, PDZK1 siRNA (m): sc-152145, PDZK1 shRNA Plasmid (h): sc-106840-SH, PDZK1 shRNA Plasmid (m): sc-152145-SH, PDZK1 shRNA (h) Lentiviral Particles: sc-106840-V and PDZK1 shRNA (m) Lentiviral Particles: sc-152145-V.

Molecular Weight of PDZK1: 63/70 kDa.

Positive Controls: rat kidney extract: sc-2394.

## **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.

#### **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 **PDZK1 (E-9):** sc-390964 or **PDZK1 (H-1):** sc-390932, our highly recommended monoclonal alternatives to PDZK1 (L-12).

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