# PDZK4 (G-16): sc-168922



The Power to Question

#### **BACKGROUND**

PDZK4 (PDZ domain containing 4), also known as PDZRN4L (PDZ domain-containing RING finger protein 4-like protein) or LU1, is a 769 amino acid coiled-coil protein that contains one PDZ (DHR) domain. Encoded by a gene that maps to human chromosome Xq28, PDZK4 is conserved in dog, cow, mouse, rat and zebrafish. PDZK4 localizes to cytoplasm and is expressed specifically in adult and fetal brain. PDZK4 functions as an oncogene and is up-regulated in synovial carcinomas. Treatment of synovial sarcoma cells with small interfering RNA (siRNA) inhibits PDZK4 expression, resulting in tumor-cell growth suppression, suggesting that inappropriate expression of PDZK4 may play a role synovial sarcoma cell proliferation.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: PDZD4 (human) mapping to Xq28; Pdzd4 (mouse) mapping to X A7.3.

# **SOURCE**

PDZK4 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PDZK4 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-168922 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **RESEARCH USE**

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

#### **APPLICATIONS**

PDZK4 (G-16) is recommended for detection of PDZK4 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); non cross-reactive with other PDZK family members.

PDZK4 (G-16) is also recommended for detection of PDZK4 in additional species, including canine.

Suitable for use as control antibody for PDZK4 siRNA (h): sc-91134, PDZK4 siRNA (m): sc-152148, PDZK4 shRNA Plasmid (h): sc-91134-SH, PDZK4 shRNA Plasmid (m): sc-152148-SH, PDZK4 shRNA (h) Lentiviral Particles: sc-91134-V and PDZK4 shRNA (m) Lentiviral Particles: sc-152148-V.

Molecular Weight of PDZK4: 86 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 or our catalog for detailed protocols and support products.

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