SANTA CRUZ BIOTECHNOLOGY, INC.

PRKCDBP (L-13): sc-138049

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

PRKCDBP (protein kinase C, δ binding protein), also known as SRBC, HSRBC or cavin-3, is a 261 amino acid protein belonging to the STICK (substrates that interact with C-kinase) superfamily of PKC-binding proteins that is strongly expressed in mammary and epithelial cells. PRKCDBP interacts with PRKCD and phosphatidylserine. It is suggested that phosphatidylserine may stabilize the binding between PKC and PKC-binding partners by forming a bridge. Considered a novel tumor suppressor, PRKCDBP is downregulated in breast and lung cancer cell lines and is inactivated by methylation. PRKCDBP may have an immune potentiation function and may act as a caveolin adapter that regulates caveolae function. NK-1R (neurokinin 1 receptor), a G protein-coupled receptor found in human glioblastomas is known to stimulate the phosphorylation of PRKCDBP.

CHROMOSOMAL LOCATION

Genetic locus: PRKCDBP (human) mapping to 11p15.4; Prkcdbp (mouse) mapping to 7 E3.

SOURCE

PRKCDBP (L-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRKCDBP 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-138049 P, (100 µg 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

PRKCDBP (L-13) is recommended for detection of PRKCDBP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PRKCDBP (L-13) is also recommended for detection of PRKCDBP in additional species, including equine, canine and porcine.

Suitable for use as control antibody for PRKCDBP siRNA (h): sc-96852, PRKCDBP siRNA (m): sc-152468, PRKCDBP shRNA Plasmid (h): sc-96852-SH, PRKCDBP shRNA Plasmid (m): sc-152468-SH, PRKCDBP shRNA (h) Lentiviral Particles: sc-96852-V and PRKCDBP shRNA (m) Lentiviral Particles: sc-152468-V.

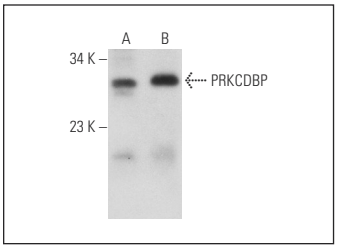
Molecular Weight of PRKCDBP: 27 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

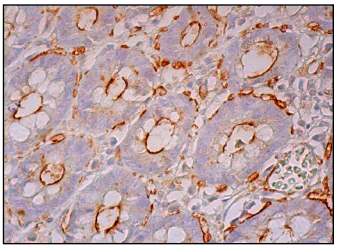
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



PRKCDBP (L-13): sc-138049. Western blot analysis of PRKCDBP expression in NIH/3T3 (**A**) and HeLa (**B**) whole cell lysates.



PRKCDBP (L-13): sc-138049. Immunoperoxidase staining of formalin fixed, paraffin-embedded human colon tissue showing apical membrane staining of glandular cells and membrane staining of endothelial cells.

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.

MONOS Satisfaction Guaranteed

Try **PRKCDBP (8D3): sc-293329**, our highly recommended monoclonal alternative to PRKCDBP (L-13).