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Diagnostik & molekulare Diagnostik



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PRKCDBP siRNA (m): sc-152468



The Power to Questio

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 down-regulated 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Prkcdbp (mouse) mapping to 7 E3.

PRODUCT

PRKCDBP siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see PRKCDBP shRNA Plasmid (m): sc-152468-SH and PRKCDBP shRNA (m) Lentiviral Particles: sc-152468-V as alternate gene silencing products.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$ C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$ C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNAse-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

PRKCDBP siRNA (m) is recommended for the inhibition of PRKCDBP expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor PRKCDBP gene expression knockdown using RT-PCR Primer: PRKCDBP (m)-PR: sc-152468-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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