AXUD1 siRNA (h): sc-60237



The Power to Question

BACKGROUND

Axin, an important regulator of β -catenin, is frequently mutated in human hepatocellular carcinomas (HCCs). Transduction of the wildtype Axin gene (AXIN1) induces apoptosis in colon cancer cells as well as in HCC cells. Axin-1 upregulated gene 1 protein (AXUD1), also designated TGF β -induced apoptosis protein 3 (TAIP-3) or URAX1, is ubiquitously expressed, but highest levels are detected in placenta, lung, skeletal muscle, leukocytes and pancreas. AXUD1 has increased expression in response to exogenously expressed Axin-1 and localizes primarily to the nucleus. It is downregulated in kidney, lung, liver and colon cancers compared with corresponding unaffected tissues, which implicates that AXUD1 may function as a tumor-suppressor in these organs. AXUD1 may also be also be involved in apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AXUD1 (human) mapping to 3p22.2.

PRODUCT

AXUD1 siRNA (h) is a pool of 3 target-specific 19-25 nt siRNAs 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 AXUD1 shRNA Plasmid (h): sc-60237-SH and AXUD1 shRNA (h) Lentiviral Particles: sc-60237-V as alternate gene silencing products.

For independent verification of AXUD1 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-60237A, sc-60237B and sc-60237C.

PROTOCOLS

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

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° 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

AXUD1 siRNA (h) is recommended for the inhibition of AXUD1 expression in human 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 μ M in 66 μ l. 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-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

GENE EXPRESSION MONITORING

AXUD1 (2055E3a): sc-81191 is recommended as a control antibody for monitoring of AXUD1 gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor AXUD1 gene expression knockdown using RT-PCR Primer: AXUD1 (h)-PR: sc-60237-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.

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