



ASB-11 siRNA (h): sc-60206

BACKGROUND

Members of the suppressor of cytokine signaling (SOCS) family of proteins contain C-terminal regions of homology called the SOCS box, which serves to couple SOCS proteins and their binding partners with the elongin B and C complex. Several other families of proteins also contain SOCS boxes, but differ from the SOCS proteins in the type of domain they contain upstream of the SOCS box. Members of the ankyrin repeat and SOCS box-containing (ASB) protein family include ASB-1, ASB-2, ASB-3, ASB-4 and ASB-11. ASB-1 is expressed in multiple organs, including the hematopoietic compartment. ASB-1 knockout mice display a diminution of spermatogenesis with less complete filling of seminiferous tubules. ASB-2 is a novel retinoic-acid (RA)-induced gene in acute promyelocytic leukemia (APL) cells and its expression induces growth-inhibition and chromatin condensation recapitulating early events critical to RA-induced differentiation of APL cells. ASB-2 is directly induced by all-*trans* retinoic acid, by the binding of RAR α to the RAR binding element/RXR binding element in the ASB-2 promoter.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ASB11 (human) mapping to Xp22.2.

PRODUCT

ASB-11 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see ASB-11 shRNA Plasmid (h): sc-60206-SH and ASB-11 shRNA (h) Lentiviral Particles: sc-60206-V as alternate gene silencing products.

For independent verification of ASB-11 (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-60206A, sc-60206B and sc-60206C.

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

ASB-11 siRNA (h) is recommended for the inhibition of ASB-11 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-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor ASB-11 gene expression knockdown using RT-PCR Primer: ASB-11 (h)-PR: sc-60206-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.