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SGTA siRNA (m): sc-153427

BACKGROUND

SGTA (small glutamine-rich tetratricopeptide repeat (TPR)-containing protein A or α), also known as SGT, hSGT or UBP (Vpu-binding protein), is a ubiquitously expressed protein that contains three TPR protein-protein interaction repeats. SGTA is believed to function as a component of the androgen receptor (AR)-chaperone-co-chaperone complex, acting as a co-chaperone involved in androgen signaling. More specifically, SGTA binds to the hinge region of the AR functions to retain the AR in the cytoplasm, thereby inhibiting androgen signaling. In addition, SGTA functions as a co-chaperone for HSP 90 and HSP 70, two proteins known to participate in apoptosis. On the basis of its role in apoptosis and androgen signaling, SGTA is a potential candidate for PCOS (polycystic ovary syndrome), a disorder characterized by androgen excess, obesity and menstrual disturbances. SGTA also interacts with the nonstructural parvovirus protein NS1 and the HIV-1 proteins Vpu and Gag.

REFERENCES

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- Tobaben, S., et al. 2001. A trimeric protein complex functions as a synaptic chaperone machine. *Neuron* 31: 987-999.
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CHROMOSOMAL LOCATION

Genetic locus: Sgta (mouse) mapping to 10 C1.

PRODUCT

SGTA siRNA (m) 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 SGTA shRNA Plasmid (m): sc-153427-SH and SGTA shRNA (m) Lentiviral Particles: sc-153427-V as alternate gene silencing products.

For independent verification of SGTA (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-153427A, sc-153427B and sc-153427C.

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

SGTA siRNA (m) is recommended for the inhibition of SGTA 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 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.

GENE EXPRESSION MONITORING

SGTA (6A4): sc-130557 is recommended as a control antibody for monitoring of SGTA 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).

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor SGTA gene expression knockdown using RT-PCR Primer: SGTA (m)-PR: sc-153427-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.