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SVEP1 siRNA (m): sc-153952

BACKGROUND

SVEP1 (sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1), also known as SEL-OB (selectin-like osteoblast-derived protein), CCP module-containing protein 22 or serologically defined breast cancer antigen NY-BR-38, is a 3,571 amino acid secreted, cytoplasmic and peripheral membrane protein. SVEP1 contains 34 Sushi (CCP/SCR) domains, 9 EGF-like domains, 2 HYR domains, one pentaxin domain and one VWFA domain. With its highest expression level in lung and placenta, SVEP1 is also expressed in mesenchymal primary cultured cell lysates and bone marrow stromal cells. SVEP1 exists as four alternatively spliced isoforms and may play a role in the cell attachment process. The gene that encodes SVEP1 contains 214,633 bases and 48 exons, and maps to human chromosome 9q32.

REFERENCES

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- Socher, R. and Benayahu, D. 2008. Comparative study using scanning electron techniques for imaging of micro-architecture and antigen appearance. *J. Microsc.* 230: 233-239.
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CHROMOSOMAL LOCATION

Genetic locus: Svep1 (mouse) mapping to 4 B3.

PRODUCT

SVEP1 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 SVEP1 shRNA Plasmid (m): sc-153952-SH and SVEP1 shRNA (m) Lentiviral Particles: sc-153952-V as alternate gene silencing products.

For independent verification of SVEP1 (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-153952A, sc-153952B and sc-153952C.

RESEARCH USE

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

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

SVEP1 siRNA (m) is recommended for the inhibition of SVEP1 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.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor SVEP1 gene expression knockdown using RT-PCR Primer: SVEP1 (m)-PR: sc-153952-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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