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ECM2 siRNA (m): sc-143287

BACKGROUND

ECM2 (extracellular matrix protein 2), also known as matrix glycoprotein SC1/ECM2, is a 699 amino acid secreted protein belonging to the small leucine-rich proteoglycan (SLRP) family and SLRP class I subfamily. ECM2 is expressed abundantly in adipose tissue, as well as female-specific organs including mammary gland, ovary, and uterus. Containing 13 LRR (leucine-rich repeats), one LRRNT domain, and one VWFC domain, ECM2 shares a wide range of similarities to known extracellular matrix proteins, including proteoglycan, keratocan, and decorin. ECM2 promotes cell adhesion and matrix assembly, and may function in cell-cell or cell-ECM recognition processes. Existing as two alternatively spliced isoforms, the gene encoding ECM2 maps to human chromosome 9q22.31. Chromosome 9 consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes.

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CHROMOSOMAL LOCATION

Genetic locus: Ecm2 (mouse) mapping to 13 A5.

PROTOCOLS

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

PRODUCT

ECM2 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see ECM2 shRNA Plasmid (m): sc-143287-SH and ECM2 shRNA (m) Lentiviral Particles: sc-143287-V as alternate gene silencing 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

ECM2 siRNA (m) is recommended for the inhibition of ECM2 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 ECM2 gene expression knockdown using RT-PCR Primer: ECM2 (m)-PR: sc-143287-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.