



MIC2L1 siRNA (h): sc-91030

BACKGROUND

MIC2L1 (MIC2-like protein 1), also known as CD99L2 (CD99 antigen-like protein 2), is a 262 amino acid single-pass type I membrane protein that functions as a homophilic adhesion molecule. A member of the CD99 family, MIC2L1 exists as four alternatively spliced isoforms and is expressed in heart, lung, small intestine, brain, liver, kidney, spleen, uterus, testis, thymus, skeletal muscle and stomach. MIC2L1 participates in the diapedesis step of leukocyte extravasation and undergoes post-translational O-glycosylation. The gene encoding MIC2L1 maps to human chromosome X, which consists of about 153 million base pairs and nearly 1,000 genes. Color blindness, hemophilia and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently, as males carry a single X chromosome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CD99L2 (human) mapping to Xq28.

PROTOCOLS

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

PRODUCT

MIC2L1 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 MIC2L1 shRNA Plasmid (h): sc-91030-SH and MIC2L1 shRNA (h) Lentiviral Particles: sc-91030-V as alternate gene silencing products.

For independent verification of MIC2L1 (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-91030A, sc-91030B and sc-91030C.

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

MIC2L1 siRNA (h) is recommended for the inhibition of MIC2L1 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 MIC2L1 gene expression knockdown using RT-PCR Primer: MIC2L1 (h)-PR: sc-91030-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.