

MAIR-II siRNA (m): sc-149232

BACKGROUND

MAIR-II (myeloid-associated immunoglobulin-like receptor 2), also known as CLM (CMRF35-like molecule), DlgR1 (dendritic cell-derived Ig-like receptor 1), IgSF7 (immunoglobulin superfamily member 7) or AF251705, is a 230 amino acid single-pass type I membrane protein. Belonging to the CD300 family, MAIR-II contains one Ig-like V-type (immunoglobulin-like) domain. MAIR-II is present on the surface of mast cells, dendritic cells, B cells and peritoneal macrophages, where it may act as an activating receptor. The gene encoding MAIR-II, which exists as two alternatively spliced isoforms, maps to mouse chromosome 11 E2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AF251705 (mouse) mapping to 11 E2.

PROTOCOLS

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

PRODUCT

MAIR-II 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 MAIR-II shRNA Plasmid (m): sc-149232-SH and MAIR-II shRNA (m) Lentiviral Particles: sc-149232-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

MAIR-II siRNA (m) is recommended for the inhibition of MAIR-II 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 MAIR-II gene expression knockdown using RT-PCR Primer: MAIR-II (m)-PR: sc-149232-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.