

6CKine siRNA (m): sc-147996

BACKGROUND

6CKine (also designated Exodus-2, SLC, or TCA4) is a member of the chemokine superfamily and the subfamily of C-C chemokines that has an aspartate-cysteine-cysteine-leucine motif near its amino terminus. 6CKine has a unique 36 or 37 (murine and human, respectively) amino acid carboxyl-terminal extension that contains six conserved cysteines. 6CKine stimulates the chemotaxis of T lymphocytes and the recruitment and proliferation of activated NK cells. Expression of human 6CKine is restricted to lymph node, spleen and appendix, while murine 6CKine has a broader tissue distribution in spleen and lung. 6CKine is involved in inhibiting hematopoiesis both *in vitro* and *in vivo*. The chemokine family is composed of structurally related proteins that mediate all leukocyte migration. Chemokines stimulate leukocyte infiltration and therefore play crucial roles in many diseases in which there is inflammatory tissue destruction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ccl21b (mouse) mapping to 4 A5.

PRODUCT

6CKine 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 6CKine shRNA Plasmid (m): sc-147996-SH and 6CKine shRNA (m) Lentiviral Particles: sc-147996-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

6CKine siRNA (m) is recommended for the inhibition of 6CKine 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

6CKine (FL-134): sc-25445 is recommended as a control antibody for monitoring of 6CKine 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 (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor 6CKine gene expression knockdown using RT-PCR Primer: 6CKine (m)-PR: sc-147996-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.