SANTA CRUZ BIOTECHNOLOGY, INC.

XKRY siRNA (h): sc-91541

BACKGROUND

XKRY (Kell blood group complex subunit-related, Y-linked), also known as testis-specific XK-related protein Y-linked, is a 159 amino acid protein belonging to the XK family. The gene that encodes XKRY is present as two identical copies within a palindromic and nonrecombining portion of the Y chromosome. The more centromeric copy of the XKRY gene is designated XKRY and the more telomeric copy is designated XKRY2. Localized to the plasma membrane, both XKRY and XKRY2 are expressed specifically in testis. XKRY and XKRY2 are similar to XK (X-linked Kell blood group precursor), a putative membrane transport protein that is associated with McLeod syndrome, an X-linked, recessive disorder characterized by abnormalities in the neuromuscular and hematopoietic systems.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: XKRY (human) mapping to Yq11.222.

PRODUCT

XKRY siRNA (h) 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see XKRY shRNA Plasmid (h): sc-91541-SH and XKRY shRNA (h) Lentiviral Particles: sc-91541-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 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

XKRY siRNA (h) is recommended for the inhibition of XKRY 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 µM in 66 µl. 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 XKRY gene expression knockdown using RT-PCR Primer: XKRY (h)-PR: sc-91541-PR (20 µl). 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.

PROTOCOLS

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