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SANTA CRUZ BIOTECHNOLOGY, INC.

SLAIN2 siRNA (m): sc-153483

BACKGROUND

SLAIN2 (SLAIN motif-containing protein 2) is a 581 amino acid protein that belongs to the SLAIN motif-containing family. The SLAIN2 protein is widely expressed with highest levels in adult liver, testis and ovary, and lowest levels in adult pancreas and spleen and in fetal brain. The KS core protein mimecan binds SLAIN2, which is a tubulin like protein that is widely conserved in vertebrates. SLAIN2 has a higher signal than any signal generated by bKS, bCSA or bHA binding to any protein. Mouse and human SLAIN2 proteins, both predicted to encode proteins of 581 amino acids, were 93.8% identical, contain eight exons and span 75 kb, and were 37.1% and 36.3% identical to their respective SLAIN1 homologues. The SLAIN2 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 4p11. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Slain2 (mouse) mapping to 5 C3.2.

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.

PRODUCT

SLAIN2 siRNA (m) 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see SLAIN2 shRNA Plasmid (m): sc-153483-SH and SLAIN2 shRNA (m) Lentiviral Particles: sc-153483-V as alternate gene silencing products.

For independent verification of SLAIN2 (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-153483A, sc-153483B and sc-153483C.

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

SLAIN2 siRNA (m) is recommended for the inhibition of SLAIN2 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 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 SLAIN2 gene expression knockdown using RT-PCR Primer: SLAIN2 (m)-PR: sc-153483-PR (20 µl). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.