SANTA CRUZ BIOTECHNOLOGY, INC.

ANUBL1 siRNA (m): sc-141126

BACKGROUND

ANUBL1 (AN1, ubiquitin-like, homolog), also known as AN1-type zinc finger and ubiquitin domain-containing protein 1 or ZFAND4 (zinc finger, AN1-type domain 4), is a 727 amino acid protein that contains one AN1-type zinc finger and one ubiquitin-like domain. ANUBL1 participates in metal and zinc ion binding and is conserved in chimpanzee, canine, bovine, mouse, rat and zebrafish. The AN1 domain of human ANUBL1 is homologous to the AN1 domain of OsiSAP8, which belongs to the stress associated protein (SAP) gene family of rice and exhibits salt, drought and cold stress tolerance in transgenic tobacco and rice. ANUBL1 is encoded by a gene that maps to human chromosome 10, which spans nearly 135 million base pairs that encode approximately 1,200 genes and makes up 4.5% of total DNA in cells. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Anubl1 (mouse) mapping to 6 E3.

PRODUCT

ANUBL1 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 ANUBL1 shRNA Plasmid (m): sc-141126-SH and ANUBL1 shRNA (m) Lentiviral Particles: sc-141126-V as alternate gene silencing products.

For independent verification of ANUBL1 (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-141126A, sc-141126B and sc-141126C.

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

ANUBL1 siRNA (m) is recommended for the inhibition of ANUBL1 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 ANUBL1 gene expression knockdown using RT-PCR Primer: ANUBL1 (m)-PR: sc-141126-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.