SANTA CRUZ BIOTECHNOLOGY, INC.

FYTTD1 siRNA (m): sc-145282

BACKGROUND

FYTTD1 (forty-two-three domain containing protein 1), also known as UAP56-interacting factor or UIF, is a 318 amino acid protein belonging to the UIF family. FYTTD1 localizes to nucleus and is required for mRNA export from nucleus to cytoplasm. Functioning as an adaptor, FYTTD1 utilizes the BAT1/DDX39-TAP pathway, which is essential for efficient mRNA export and nuclear pore delivery. FYTTD1 interacts with SSRP1, a protein that is necessary for its recruitment of mRNAs, in addition to a mutually exclusive interaction with BAT1/DDX39 and TAP. FYTTD1 exists as four alternatively spliced isoforms and is encoded by a gene located on human chromosome 3q29.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Fyttd1 (mouse) mapping to 16 B3.

PROTOCOLS

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

PRODUCT

FYTTD1 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 FYTTD1 shRNA Plasmid (m): sc-145282-SH and FYTTD1 shRNA (m) Lentiviral Particles: sc-145282-V as alternate gene silencing products.

For independent verification of FYTTD1 (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-145282A, sc-145282B and sc-145282C.

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

FYTTD1 siRNA (m) is recommended for the inhibition of FYTTD1 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 FYTTD1 gene expression knockdown using RT-PCR Primer: FYTTD1 (m)-PR: sc-145282-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.