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Neuralized-2 siRNA (m): sc-149925

BACKGROUND

Neuralized-2, also known as NEURL2, OZZ or Ozz-E3, is a 285 amino acid cytoplasmic protein involved in myofiber differentiation and maturation that is induced during differentiation. Expressed predominantly in skeletal and cardiac muscle, Neuralized-2 localizes to the tips of differentiating myofibers and regulates ubiquitination and degradation of β -catenin at the sarcolemma. Neuralized-2 contains one SOCS box domain, through which it interacts with Elongin B and Elongin C, and one NHR (neuralized homology repeat) domain that is implicated in ubiquitination substrate binding. The gene encoding Neuralized-2 maps to human chromosome 20, which is comprised of approximately 2% of the human genome, contains nearly 63 million bases and encodes over 600 genes. Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis and Alagille syndrome are associated with chromosome 20.

REFERENCES

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3. Nishimura, A.L., et al. 2004. A novel locus for late onset amyotrophic lateral sclerosis/motor neurone disease variant at 20q13. *J. Med. Genet.* 41: 315-320.
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CHROMOSOMAL LOCATION

Genetic locus: Neurl2 (mouse) mapping to 2 H3.

PRODUCT

Neuralized-2 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 Neuralized-2 shRNA Plasmid (m): sc-149925-SH and Neuralized-2 shRNA (m) Lentiviral Particles: sc-149925-V as alternate gene silencing products.

PROTOCOLS

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

Neuralized-2 siRNA (m) is recommended for the inhibition of Neuralized-2 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

Neuralized-2 (A-11): sc-398195 is recommended as a control antibody for monitoring of Neuralized-2 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 reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Neuralized-2 gene expression knockdown using RT-PCR Primer: Neuralized-2 (m)-PR: sc-149925-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.