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Diagnostik & molekulare Diagnostik



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Myopodin siRNA (m): sc-149757



The Power to Question

BACKGROUND

Dendritic spines are dynamic structures that alter their shape and size by remodeling the cytoskeleton in response to changes in synaptic activity. Synaptopodin is a proline-rich, actin-associated protein expressed in mature dendritic spines and renal podocytes. Synaptopodin appears to play a role in the actin-based plasticity of spines by linking actin to the spine apparatus. In the principal neurons of the hippocampus, synaptopodin preferentially localizes to the spine neck. Synaptopodin expression increases during long-term potentiation (LTP) in vivo and elevated levels of synaptopodin correlate with the persistence of LTP. In renal podocytes, synaptopodin localizes to the foot processes. Synaptopodin is absent in the sclerosed glomeruli of diopathic nephrotic syndrome. Myopodin, a member of the synaptopodin, myopodin associates with actin and appears to display actin-bundling activity. Myopodin is frequently absent in invasive prostate cancer and may serve as a prognostic marker for prostate cancers.

REFERENCES

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- Deller, T., et al. 2000. Potential role of synaptopodin in spine motility by coupling actin to the spine apparatus. Hippocampus 10: 569-581.
- 3. Deller, T., et al. 2000. Actin-associated protein synaptopodin in the rat hippocampal formation: localization in the spine neck and close association with the spine apparatus of principal neurons. J. Comp. Neurol. 418: 164-181.
- Yamazaki, M., et al. 2001. Regulated expression of an actin-associated protein, synaptopodin, during long-term potentiation. J. Neurochem. 79: 192-199.
- 5. Srivastava, T., et al. 2001. Synaptopodin expression in idiopathic nephrotic syndrome of childhood. Kidney Int. 59: 118-125.
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CHROMOSOMAL LOCATION

Genetic locus: Synpo2 (mouse) mapping to 3 G1.

PRODUCT

Myopodin 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Myopodin shRNA Plasmid (m): sc-149757-SH and Myopodin shRNA (m) Lentiviral Particles: sc-149757-V as alternate gene silencing products.

For independent verification of Myopodin (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-149757A, sc-149757B and sc-149757C.

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

Myopodin siRNA (m) is recommended for the inhibition of Myopodin 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 Myopodin gene expression knockdown using RT-PCR Primer: Myopodin (m)-PR: sc-149757-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.

PROTOCOLS

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

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