

Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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MOB1B siRNA (m): sc-149489



The Power to Question

BACKGROUND

Sterile-20 (Ste20) is a serine/threonine kinase in *Saccharomyces cerevisiae* that is involved in relaying signals from G protein-coupled receptors to cytosolic MAP kinase cascades. The mammalian homologs MST1 and MST2, also designated Krs-2 and Krs-1, respectively, are major regulators of cell proliferation and survival during development. MST1/MST2 phosphorylize MOBKL1A and MOBKL1B in an MST1/MST2-dependent manner in mitosis and in response to okadaic acid or H_2O_2 . MOBKL1A and MOBKL1B, also designated MOB1A and MOB1B, bind to and regulate downstream targets such as the NDR-family protein kinases and LATS1 kinase. Therefore, MOBKL1A and MOBKL1B participate in cell cycle checkpoint control and tumor inhibition.

REFERENCES

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- 7. Sasaki, H., et al. 2007. Human MOB1 expression in non-small-cell lung cancer. Clin. Lung Cancer 8: 273-276.
- 8. Praskova, M., et al. 2008. MOBKL1A/MOBKL1B phosphorylation by MST1 and MST2 inhibits cell proliferation. Curr. Biol. 18: 311-321.

CHROMOSOMAL LOCATION

Genetic locus: Mob1b (mouse) mapping to 5 E1.

PRODUCT

MOB1B 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 MOB1B shRNA Plasmid (m): sc-149489-SH and MOB1B shRNA (m) Lentiviral Particles: sc-149489-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

MOB1B siRNA (m) is recommended for the inhibition of MOB1B 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 MOB1B gene expression knockdown using RT-PCR Primer: MOB1B (m)-PR: sc-149489-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.

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