



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

SCAND1 siRNA (m): sc-153246

BACKGROUND

SCAND1 (SCAN domain containing 1), also known as RAZ1 or SDP1, is a nuclear protein that may play a role in the mechanism of transcription regulation. It is widely expressed with highest levels of expression found in kidney, thyroid, liver, prostate and testis. SCAND1 contains one SCAN box domain and, unlike the majority of other SCAN domain containing proteins, it does not contain a zinc finger motif. The SCAN box domain is a conserved leucine rich motif, approximately 60 amino acids in length, that participates in protein-protein interactions. SCAND1 interacts with ZNF38, ZNF191 and MZF-1. It also interacts with ZNF202 and PPAR γ , suggesting that it plays a role in the transcriptional regulation of genes that are involved in energy homeostasis and lipid metabolism.

REFERENCES

- Sander, T.L., Haas, A.L., Peterson, M.J. and Morris, J.F. 2000. Identification of a novel SCAN box-related protein that interacts with MZF1B. The leucine-rich SCAN box mediates hetero- and homoprotein associations. *J. Biol. Chem.* 275: 12857-12867.
- Schumacher, C., Wang, H., Honer, C., Ding, W., Koehn, J., Lawrence, Q., Coulis, C.M., Wang, L.L., Ballinger, D., Bowen, B.R. and Wagner, S. 2000. The SCAN domain mediates selective oligomerization. *J. Biol. Chem.* 275: 17173-17179.
- Sander, T.L. and Morris, J.F. 2002. Characterization of the SCAN box encoding RAZ1 gene: analysis of cDNA transcripts, expression, and cellular localization. *Gene* 296: 53-64.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 610416. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Babb, R. and Bowen, B.R. 2003. SDP1 is a peroxisome-proliferator-activated receptor γ 2 co-activator that binds through its SCAN domain. *Biochem. J.* 370: 719-727.
- Nam, K., Honer, C. and Schumacher, C. 2004. Structural components of SCAN-domain dimerizations. *Proteins* 56: 685-692.
- Edelstein, L.C. and Collins, T. 2005. The SCAN domain family of zinc finger transcription factors. *Gene* 359: 1-17.
- Peterson, F.C., Hayes, P.L., Waltner, J.K., Heisner, A.K., Jensen, D.R., Sander, T.L. and Volkman, B.F. 2006. Structure of the SCAN domain from the tumor suppressor protein MZF1. *J. Mol. Biol.* 363: 137-147.
- Carneiro, F.R., Silva, T.C., Alves, A.C., Haline-Vaz, T., Gozzo, F.C. and Zanchin, N.I. 2006. Spectroscopic characterization of the tumor antigen NY-REN-21 and identification of heterodimer formation with SCAND1. *Biochem. Biophys. Res. Commun.* 343: 260-268.

CHROMOSOMAL LOCATION

Genetic locus: Scand1 (mouse) mapping to 2 H1.

PROTOCOLS

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

PRODUCT

SCAND1 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 SCAND1 shRNA Plasmid (m): sc-153246-SH and SCAND1 shRNA (m) Lentiviral Particles: sc-153246-V as alternate gene silencing 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

SCAND1 siRNA (m) is recommended for the inhibition of SCAND1 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.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor SCAND1 gene expression knockdown using RT-PCR Primer: SCAND1 (m)-PR: sc-153246-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.