



**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

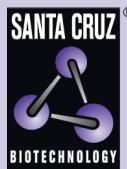
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic



LTBP-1 siRNA (m): sc-45455



The Power to Question

BACKGROUND

Latent transforming growth factor- β 1 binding protein 1 (LTBP-1), a heavy glycoprotein, is part of the platelet-derived TGF- β 1 complex. LTBP-1 serves as an anchor for latent TGF- β in the extracellular matrix and is a component of microfibrillar structures. Cleavage of LTBP results in LTBP-1, which may sequester latent TGF- β in the extracellular matrix and regulate its activation. LTBP-1 mRNA is enriched in ovarian carcinoma tissues and highly expressed in serous and mucinous adenocarcinomas.

REFERENCES

- Kanzaki, T., et al. 1990. TGF- β 1 binding protein: a component of the large latent complex of TGF- β 1 with multiple repeat sequences. *Cell* 61: 1051-1061.
- Olofsson, A., et al. 1995. Efficient association of an amino-terminally extended form of human latent transforming growth factor- β binding protein with the extracellular matrix. *J. Biol. Chem.* 270: 31294-31297.
- Saharinen, J., et al. 1999. Latent transforming growth factor- β binding proteins (LTBPs)—structural extracellular matrix proteins for targeting TGF- β action. *Cytokine Growth Factor Rev.* 10: 99-117.
- Gualandris, A., et al. 2000. The latent transforming growth factor- β -binding protein-1 promotes *in vitro* differentiation of embryonic stem cells into endothelium. *Mol. Cell. Biol.* 11: 4295-4308.
- Breitkopf, K., et al. 2001. Expression and matrix deposition of latent transforming growth factor β binding proteins in normal and fibrotic rat liver and transdifferentiating hepatic stellate cells in culture. *Hepatology* 33: 387-396.
- Higashi, T., et al. 2001. Overexpression of latent transforming growth factor- β 1 (TGF- β 1) binding protein 1 (LTBP-) in association with TGF- β 1 in ovarian carcinomas. *Jpn. J. Cancer Res.* 92: 506-1055.
- Isogai, Z., et al. 2003. Latent transforming growth factor β -binding protein 1 interacts with fibrillin and is a microfibril-associated protein. *J. Biol. Chem.* 278: 2750-2757.
- SWISS-PROT/TrEMBL (Q14766). World Wide Web URL:<http://www.expasy.ch/sprot/sprot-top.html>

CHROMOSOMAL LOCATION

Genetic locus: Ltp1 (mouse) mapping to 17 E2.

PRODUCT

LTBP-1 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 transfactions. Also see LTBP-1 shRNA Plasmid (m): sc-45455-SH and LTBP-1 shRNA (m) Lentiviral Particles: sc-45455-V as alternate gene silencing products.

For independent verification of LTBP-1 (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-45455A, sc-45455B and sc-45455C.

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

LTBP-1 siRNA (m) is recommended for the inhibition of LTBP-1 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 LTBP-1 gene expression knockdown using RT-PCR Primer: LTBP-1 (m)-PR: sc-45455-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 for detailed protocols and support products.