



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) 

ZXDC siRNA (m): sc-155851

BACKGROUND

Zinc finger X-linked duplicated family member C (ZXDC) is an 858 amino acid protein belonging to the ZDX family. Localized to the nucleus, ZXDC is expressed at high levels in heart, kidney, liver and testis, with lower levels of expression in lung, muscle, placenta, small intestine and spleen. ZXDC, with ZDXA, forms a complex that binds to the class II *trans*-activator (CIITA). CIITA, like the X1-binding regulatory factor X (RFX) complex and the nuclear factor Y (NFY) complex, is a transcriptional co-factor that is necessary, but not sufficient, for major histocompatibility complex (MHC) class II gene transcription. ZXDC, by regulating CIITA function, activates the transcription of MHC genes.

REFERENCES

- Greig, G.M., Sharp, C.B., Carrel, L. and Willard, H.F. 1993. Duplicated zinc finger protein genes on the proximal short arm of the human X chromosome: isolation, characterization and X-inactivation studies. *Hum. Mol. Genet.* 2: 1611-1618.
- Ting, J.P. and Trowsdale, J. 2002. Genetic control of MHC class II expression. *Cell* 109: S21-S33.
- Zika, E., Greer, S.F., Zhu, X.S. and Ting, J.P. 2003. Histone deacetylase 1/mSin3A disrupts gamma interferon-induced CIITA function and major histocompatibility complex class II enhanceosome formation. *Mol. Cell. Biol.* 23: 3091-3102.
- Macleod, K., Mullen, P., Sewell, J., Rabiasz, G., Lawrie, S., Miller, E., Smyth, J.F. and Langdon, S.P. 2005. Altered ErbB receptor signaling and gene expression in cisplatin-resistant ovarian cancer. *Cancer Res.* 65: 6789-6800.
- Drozina, G., Kohoutek, J., Jabrane-Ferrat, N. and Peterlin, B.M. 2005. Expression of MHC II genes. *Curr. Top. Microbiol. Immunol.* 290: 147-170.
- Jambunathan, S. and Fontes, J.D. 2007. Sumoylation of the zinc finger protein ZXDC enhances the function of its transcriptional activation domain. *Biol. Chem.* 388: 965-972.
- Al-Kandari, W., Koneni, R., Navalgund, V., Aleksandrova, A., Jambunathan, S. and Fontes, J.D. 2007. The zinc finger proteins ZXDA and ZXDC form a complex that binds CIITA and regulates MHC II gene transcription. *J. Mol. Biol.* 369: 1175-1187.
- Al-Kandari, W., Jambunathan, S., Navalgund, V., Koneni, R., Freer, M., Parimi, N., Mudhasani, R. and Fontes, J.D. 2007. ZXDC, a novel zinc finger protein that binds CIITA and activates MHC gene transcription. *Mol. Immunol.* 44: 311-321.

CHROMOSOMAL LOCATION

Genetic locus: *Zxdc* (mouse) mapping to 6 D1.

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.

PRODUCT

ZXDC 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 ZXDC shRNA Plasmid (m): sc-155851-SH and ZXDC shRNA (m) Lentiviral Particles: sc-155851-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

ZXDC siRNA (m) is recommended for the inhibition of ZXDC 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 ZXDC gene expression knockdown using RT-PCR Primer: ZXDC (m)-PR: sc-155851-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.