



# 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

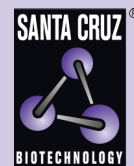
T. +43(0)1 489 3961-0

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

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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



# CD99 siRNA (m): sc-142203

## BACKGROUND

CD99, also known as D4 or PILR-L (paired immunoglobulin-like type 2 receptor-ligand), is a 175 amino acid single-pass type I membrane protein that belongs to the CD99 family. Existing as a homodimer that interacts with PILR- $\beta$ , CD99 is involved in lymphocyte transendothelial migration (TEM) and the recruitment of lymphocytes to inflamed skin. CD99 also plays a role in T cell adhesion, and in the generation of Hodgkin and Reed-Sternberg cells. High levels of CD99 can be found in lung, spleen, thymus, liver and spinal cord, as well as a wide range of T-cells. The gene encoding CD99 maps to mouse chromosome 4.

## REFERENCES

1. Bixel, G., et al. 2004. Mouse CD99 participates in T-cell recruitment into inflamed skin. *Blood* 104: 3205-3213.
2. Shiratori, I., et al. 2004. Activation of natural killer cells and dendritic cells upon recognition of a novel CD99-like ligand by paired immunoglobulin-like type 2 receptor. *J. Exp. Med.* 199: 525-533.
3. Park, S.H., et al. 2005. Rapid divergency of rodent CD99 orthologs: implications for the evolution of the pseudoautosomal region. *Gene* 353: 177-188.
4. van Wanrooij, E.J., et al. 2008. Vaccination against CD99 inhibits atherogenesis in low-density lipoprotein receptor-deficient mice. *Cardiovasc. Res.* 78: 590-596.
5. Dufour, E.M., et al. 2008. CD99 is essential for leukocyte diapedesis *in vivo*. *Cell Commun. Adhes.* 15: 351-363.
6. Wang, J., et al. 2008. An essential role of sialylated O-linked sugar chains in the recognition of mouse CD99 by paired Ig-like type 2 receptor (PILR). *J. Immunol.* 180: 1686-1693.
7. Bixel, M.G., et al. 2010. CD99 and CD99L2 act at the same site as, but independently of, PECAM-1 during leukocyte diapedesis. *Blood* 116: 1172-1184.
8. Hong, J., et al. 2012. CD99 expression and newly diagnosed diffuse large B-cell lymphoma treated with rituximab-CHOP immunochemotherapy. *Ann. Hematol.* E-published.
9. Park, H.J., et al. 2012. CD99-dependent expansion of myeloid-derived suppressor cells and attenuation of graft-versus-host disease. *Mol. Cells* 33: 259-267.

## CHROMOSOMAL LOCATION

Genetic locus: Cd99 (mouse) mapping to 4.

## PRODUCT

CD99 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see CD99 shRNA Plasmid (m): sc-142203-SH and CD99 shRNA (m) Lentiviral Particles: sc-142203-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  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

CD99 siRNA (m) is recommended for the inhibition of CD99 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  $\mu$ M in 66  $\mu$ 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 CD99 gene expression knockdown using RT-PCR Primer: CD99 (m)-PR: sc-142203-PR (20  $\mu$ 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](http://www.scbt.com) for detailed protocols and support products.