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Diagnostik & molekulare Diagnostik



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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 in



Thy-1 siRNA (h): sc-42837



The Power to Question

BACKGROUND

Over 100 cell surface markers have been identified through the use of monoclonal antibodies. Many of these markers have proven useful in identifying specific subpopulations of cells within mixed colonies. Accordingly, these molecules have been assigned a "cluster of differentiation" (CD) designation. One such marker, designated Thy-1 (also referred to as CDw90), is a phosphatidyl-anchored cell surface glycoprotein which, when coexpressed with CD34 on cells from normal human bone marrow, identifies a subpopulation that includes putative hematopoietic, pleuripotent stem cells. Thy-1+ cells from bone marrow have been implicated in syngeneic graft-versus-host disease and may serve to regulate autoreactivity after bone marrow transplant.

REFERENCES

- 1. Holter, W., et al. 1991. Phenotypical and functional characterization of leukocyte—the CD-system. Wien. Klin. Wochenschr. 103: 247-262.
- 2. Bryson, J.S., et al. 1993. Thy-1+ bone marrow cells regulate the induction of murine syngeneic graft-versus-host disease. Transplantation 56: 941-945.
- 3. Kim, Y.B., et al. 1994. CD11/CD18 panel report for swine CD workshop. Vet. Immunol. Immunopathol. 43: 289-291.
- 4. Firer, M.A., et al. 1995. The Thy-1 molecule: its properties and functions. Isr. J. Med. Sci. 31: 382-386.
- 5. Holden, J.T., et al. 1995. Characterization of Thy-1 (CDw90) expression in CD34+ acute leukemia. Blood 86: 60-65.
- Fujita, N., et al. 1995. Apoptosis inhibition by anti-M_r 23,000 (Thy-1) monoclonal antibodies without inducing Bcl-2 expression. Cell Growth Differ. 6: 355-362.
- 7. Campos, L., et al. 1996. Expression of Thy-1 antigen (CDw90) on adult acute leukemia blast cells. Blood 87: 413-414.

CHROMOSOMAL LOCATION

Genetic locus: THY1 (human) mapping to 11q23.3.

PRODUCT

Thy-1 siRNA (h) 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 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see Thy-1 shRNA Plasmid (h): sc-42837-SH and Thy-1 shRNA (h) Lentiviral Particles: sc-42837-V as alternate gene silencing products.

For independent verification of Thy-1 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-42837A, sc-42837B and sc-42837C.

PROTOCOLS

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

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$ C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$ 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

Thy-1 siRNA (h) is recommended for the inhibition of Thy-1 expression in human 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-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

GENE EXPRESSION MONITORING

Thy-1 (OX7): sc-53116 is recommended as a control antibody for monitoring of Thy-1 gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor Thy-1 gene expression knockdown using RT-PCR Primer: Thy-1 (h)-PR: sc-42837-PR (20 μ l, 502 bp). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

SELECT PRODUCT CITATIONS

 Lehmann, G.M., et al. 2010. Novel anti-adipogenic activity produced by human fibroblasts. Am. J. Physiol., Cell Physiol. 299: C672-C681.

RESEARCH USE

For research use only, not for use in diagnostic procedures.