CD42a siRNA (m): sc-42788



The Power to Question

BACKGROUND

CD42a is a single-chain membrane glycoprotein that forms a noncovalent complex with CD42b. CD42b, also known as glycoprotein lb α (GPlb α) is a membrane glycoprotein that is composed of α and β chains. The CD42b β chain is also designated CD42c, and is expressed on platelets and megakaryocytes. CD42a and CD42b are also present on platelets and mega-karyocytes, and the complex is a major component of the platelet surface. The complex acts as a receptor for von Willebrand's factor and as a von Willebrand's factor-dependent adhesion receptor.

REFERENCES

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- 3. Hickey, M.J., et al. 1993. Characterization of the gene encoding human platelet glycoprotein IX. J. Biol. Chem. 268: 3438-3443.
- 4. Kelly, M.D., et al. 1994. Complementary DNA cloning of the alternatively expressed endothelial cell glycoprotein lb β (GPlb β) and localization of the GPlb β gene to chromosome 22. J. Clin. Invest. 93: 2417-2424.
- 5. Yagi, M., et al. 1994. Structural characterization and chromosomal location of the gene encoding human platelet glycoprotein lb β . J. Biol. Chem. 269: 17424-17427.
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- 7. Kunishima, S., et al. 1994. Bernard-Soulier syndrome Kagoshima: Ser 444—stop mutation of glycoprotein (GP) lb α resulting in circulating truncated GPlb α and surface expression of GPlb β and GPIX. Blood 84: 3356-3362.

CHROMOSOMAL LOCATION

Genetic locus: Gp9 (mouse) mapping to 6 D1.

PRODUCT

CD42a 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 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see CD42a shRNA Plasmid (m): sc-42788-SH and CD42a shRNA (m) Lentiviral Particles: sc-42788-V as alternate gene silencing products.

For independent verification of CD42a (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-42788A, sc-42788B and sc-42788C.

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

CD42a siRNA (m) is recommended for the inhibition of CD42a 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 µM in 66 µl. 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 CD42a gene expression knockdown using RT-PCR Primer: CD42a (m)-PR: sc-42788-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.

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