

VSIG1 siRNA (m): sc-155230

BACKGROUND

VSIG1 (V-set and immunoglobulin domain-containing protein 1), also known as cell surface A33 antigen or glycoprotein A34, is a 387 amino acid protein belonging to the junctional adhesion molecule (JAM) family. VSIG1 is a single-pass type I membrane protein that contains one Ig-like C2-type domain and one Ig-like V-type domain. The N-terminal extracellular domain of VSIG1 is thought to contain seven possible phosphorylation sites while the C-terminal intracellular domain contains eleven. Heavily glycosylated on the N-terminal domain, VSIG1 is expressed at high levels solely in stomach mucosa and testis. VSIG1 has also been found in some gastric and ovarian cancers and esophageal carcinomas.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Vsig1 (mouse) mapping to X F1.

PRODUCT

VSIG1 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 transfections. Also see VSIG1 shRNA Plasmid (m): sc-155230-SH and VSIG1 shRNA (m) Lentiviral Particles: sc-155230-V as alternate gene silencing products.

For independent verification of VSIG1 (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-155230A, sc-155230B and sc-155230C.

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

VSIG1 siRNA (m) is recommended for the inhibition of VSIG1 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 VSIG1 gene expression knockdown using RT-PCR Primer: VSIG1 (m)-PR: sc-155230-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.