# GOLT1B siRNA (m): sc-145674



The Power to Question

## **BACKGROUND**

The Golgi complex plays an essential role in the post-translational modification and sorting of proteins transported from the endoplasmic reticulum (ER). The Golgi stack consists of a distinct cis face, or entry face, and a trans face, or exit face, which are connected via the cis, medial and trans Golgi networks. GOLT1B (Golgi transport 1B), also known as putative NF $\kappa$ B-activating protein 470 or hGOT1a, is a 138 amino acid multi-pass membrane protein that belongs to the GOT1 family. Localizing to Golgi apparatus, GOLT1B may play a role in the fusion of ER-derived transport vesicles to the Golgi complex. The gene encoding GOLT1B maps to human chromosome 12p12.1 and mouse chromosome 6 G2. Human chromosome 12 encodes over 1,100 genes and comprises approximately 4.5% of the human genome.

# **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: Golt1b (mouse) mapping to 6 G2.

## **PROTOCOLS**

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

## **PRODUCT**

GOLT1B 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 GOLT1B shRNA Plasmid (m): sc-145674-SH and GOLT1B shRNA (m) Lentiviral Particles: sc-145674-V as alternate gene silencing 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  $\mu$ 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**

GOLT1B siRNA (m) is recommended for the inhibition of GOLT1B 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 GOLT1B gene expression knockdown using RT-PCR Primer: GOLT1B (m)-PR: sc-145674-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.

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