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# galectin-6 siRNA (m): sc-44536

## BACKGROUND

Galectins are a family of soluble  $\beta$ -galactoside-binding animal lectins that modulate cell-to-cell adhesion and cell-to-extracellular matrix (ECM) interactions and play a role in tumor progression, pre-mRNA splicing and apoptosis. Mouse gastrointestinal tract specifically expresses two closely related galectins, galectin-4 and galectin-6, each with two carbohydrate recognition domains in the same peptide. Galectin-6 lacks a 24-amino acid stretch in the link region between the two carbohydrate recognition domains that is present in galectin-4. Expression of both galectin-4 and -6 is confined to the epithelial cells of the embryonic and adult gastrointestinal tract. Galectin-6 is expressed at about equal levels throughout the gastrointestinal tract.

## REFERENCES

1. Couraud, P.O., et al. 1989. Molecular cloning, characterization and expression of a human 14 kDa lectin. *J. Biol. Chem.* 264: 1310-1316.
2. Chiu, M.L., et al. 1994. An adherens junction protein is a member of the family of lactose-binding lectins. *J. Biol. Chem.* 269: 31770-31776.
3. Rechreche, H., et al. 1997. Cloning and expression of the mRNA of human galectin-4, an S-type lectin downregulated in colorectal cancer. *Eur. J. Biochem.* 248: 225-230.
4. Gitt M.A., et al. 1998. Galectin-4 and galectin-6 are two closely related lectins expressed in mouse gastrointestinal tract. *J. Biol. Chem.* 273: 2954-2960.
5. Gitt M.A., et al. 1998. Sequence, structure and chromosomal mapping of the mouse *Lgals6* gene, encoding galectin-6. *J. Biol. Chem.* 273: 2961-2970.
6. Kondoh, N., et al. 1999. Identification and characterization of genes associated with human hepatocellular carcinogenesis. *Cancer Res.* 59: 4990-4996.

## CHROMOSOMAL LOCATION

Genetic locus: *Lgals6* (mouse) mapping to 7 A3.

## PRODUCT

galectin-6 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  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see galectin-6 shRNA Plasmid (m): sc-44536-SH and galectin-6 shRNA (m) Lentiviral Particles: sc-44536-V as alternate gene silencing products.

For independent verification of galectin-6 (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-44536A, sc-44536B and sc-44536C.

## 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.

## 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

galectin-6 siRNA (m) is recommended for the inhibition of galectin-6 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 galectin-6 gene expression knockdown using RT-PCR Primer: galectin-6 (m)-PR: sc-44536-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.