# AAMP siRNA (m): sc-140732



The Power to Question

# **BACKGROUND**

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. AAMP (angio-associated migratory cell protein) is a 434 amino acid immunoglobulinlike protein that contains eight WD repeats. Expressed in endothelial cells, cytotrophoblasts and blood vessels, AAMP is thought to have a heparinsensitive role in cell adhesion and cell migration. AAMP is strongly expressed in poorly differentiated colon adenocarcinoma cells, suggesting a role for AAMP in tumor progression.

# **REFERENCES**

- Beckner, M.E., et al. 1995. Identification of a new immunoglobulin superfamily protein expressed in blood vessels with a heparin-binding consensus sequence. Cancer Res. 55: 2140-2149.
- 2. Beckner, M.E., et al. 1996. AAMP, a newly identified protein, shares a common epitope with  $\alpha$ -actinin and a fast skeletal muscle fiber protein. Exp. Cell Res. 225: 306-314.
- Beckner, M.E., et al. 1996. AAMP, a conserved protein with immunoglobulin and WD40 domains, regulates endothelial tube formation in vitro. Lab. Invest. 75: 97-107.
- Beckner, M.E., et al. 1999. Angio-associated migratory cell protein is expressed as an extracellular protein by blood-vessel-associated mesenchymal cells. Microvasc. Res. 57: 347-352.
- Beckner, M.E., et al. 2002. Extracellular angio-associated migratory cell protein plays a positive role in angiogenesis and is regulated by astrocytes in coculture. Microvasc. Res. 63: 259-269.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603488. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

# CHROMOSOMAL LOCATION

Genetic locus: Aamp (mouse) mapping to 1 C3.

# **PRODUCT**

AAMP 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 AAMP shRNA Plasmid (m): sc-140732-SH and AAMP shRNA (m) Lentiviral Particles: sc-140732-V as alternate gene silencing products.

# **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  $\mu$ 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**

AAMP siRNA (m) is recommended for the inhibition of AAMP 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 AAMP gene expression knockdown using RT-PCR Primer: AAMP (m)-PR: sc-140732-PR (20  $\mu$ I). 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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