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TATI shRNA (h) Lentiviral Particles: sc-45801-V

BACKGROUND

Tumor-associated Trypsin inhibitor (TATI), also designated pancreatic secretory trypsin inhibitor, contains one Kazal-like domain. It is a secreted trypsin inhibitor preventing trypsin-catalyzed premature activation of zymogens in the pancreas. The gene encoding for this 79 amino acid protein, named SPINK1, localizes to chromosome 5q32. Defects in this gene are the cause of chronic pancreatitis (CP), an autosomal dominant disease causing severe abdominal pain attacks. CP is characterized by calculi in pancreatic ducts. TATI can be found in the cyst fluid of cystic pancreatic lesion patients and is a potential marker for differentiating between the diagnosis of benign cystic pancreatic lesions and malignant cystic pancreatic lesions.

REFERENCES

1. Paju, A., Vartiainen, J., Haglund, C., Ikonen, O., von Boguslawski, K., Leminen, A., Wahlstrom, T. and Stenman, U.H. 2004. Expression of trypsinogen-1, trypsinogen-2, and tumor-associated trypsin inhibitor in ovarian cancer: prognostic study on tissue and serum. *Clin. Cancer Res.* 10: 4761-4768.
2. Raty, S., Sand, J., Alfthan, H., Haglund, C. and Nordback, I. 2004. Cyst fluid tumor-associated trypsin inhibitor may be helpful in the differentiation of cystic pancreatic lesions. *J. Gastrointest. Surg.* 8: 569-574.
3. Wiksten, J.P., Lundin, J., Nordling, S., Kokkola, A., Stenman, U.H. and Haglund, C. 2005. High tissue expression of tumour-associated trypsin inhibitor (TATI) associates with a more favourable prognosis in gastric cancer. *Histopathology* 46: 380-388.
4. SWISS-PROT/TrEMBL (P00995). World Wide Web URL: <http://www.expasy.ch/sprot/sprot-top.html>

CHROMOSOMAL LOCATION

Genetic locus: SPINK1 (human) mapping to 5q32.

PRODUCT

TATI shRNA (h) Lentiviral Particles is a pool of concentrated, transduction-ready viral particles containing 3 target-specific constructs that encode 19-25 nt (plus hairpin) shRNA designed to knock down gene expression. Each vial contains 200 μ l frozen stock containing 1.0×10^6 infectious units of virus (IFU) in Dulbecco's Modified Eagle's Medium with 25 mM HEPES pH 7.3. Suitable for 10-20 transductions. Also see TATI siRNA (h): sc-45801 and TATI shRNA Plasmid (h): sc-45801-SH as alternate gene silencing products.

RESEARCH USE

The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product and all replicates and derivatives for research purposes conducted by the buyer in his laboratory only (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party, or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

APPLICATIONS

TATI shRNA (h) Lentiviral Particles is recommended for the inhibition of TATI expression in human cells.

SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200 μ l frozen viral stock containing 1.0×10^6 infectious units of virus (IFU); contains an shRNA construct encoding a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA.

GENE EXPRESSION MONITORING

TATI (E-2): sc-374409 is recommended as a control antibody for monitoring of TATI gene expression knockdown by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) or immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor TATI gene expression knockdown using RT-PCR Primer: TATI (h)-PR: sc-45801-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

BIOSAFETY

Lentiviral particles can be employed in standard Biosafety Level 2 tissue culture facilities (and should be treated with the same level of caution as with any other potentially infectious reagent). Lentiviral particles are replication-incompetent and are designed to self-inactivate after transduction and integration of shRNA constructs into genomic DNA of target cells.

STORAGE

Store lentiviral particles at -80° C. Stable for at least one year from the date of shipment. Once thawed, particles can be stored at 4° C for up to one week. Avoid repeated freeze thaw cycles.

PROTOCOLS

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