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# TES shRNA (h) Lentiviral Particles: sc-45509-V

## BACKGROUND

TES was originally identified as a candidate tumour suppressor gene and has been found to encode a novel focal adhesion protein called TES or Testin. TES localizes to cell-cell contacts, Actin stress fiber and interacts with a variety of cytoskeletal proteins including Zyxin, Mena, VASP, Talin and Actin. The ability of TES to associate with  $\alpha$ -actinin, paxillin and Zyxin is dependent on the conformational state of the molecule. TES contains three LIM zinc-binding domains and may act as a tumor suppressor. Overexpression of the TES gene results in increased cell spreading and decreased cell motility.

## REFERENCES

- Garvalov, B.K., et al. 2003. The conformational state of Tes regulates its zyxin-dependent recruitment to focal adhesions. *J. Cell Biol.* 161: 33-39.
- Coutts, A.S., et al. 2003. TES is a novel focal adhesion protein with a role in cell spreading. *J. Cell Sci.* 116: 897-906.
- Chene, L., et al. 2004. Extensive analysis of the 7q31 region in human prostate tumors supports TES as the best candidate tumor suppressor gene. *Int. J. Cancer* 111: 798-804.
- Griffith, E., et al. 2005. RNAi knockdown of the focal adhesion protein TES reveals its role in actin stress fibre organisation. *Cell Motil. Cytoskeleton.* 60: 140-152.
- Rotter, B., et al. 2005.  $\alpha$ -II-spectrin interacts with Tes and EVL, two actin-binding proteins located at cell contacts. *Biochem. J.* 388: 631-638.

## CHROMOSOMAL LOCATION

Genetic locus: TES (human) mapping to 7q31.2.

## PRODUCT

TES 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  $\mu$ l frozen stock containing  $1.0 \times 10^6$  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 TES siRNA (h): sc-45509 and TES shRNA Plasmid (h): sc-45509-SH as alternate gene silencing products.

## APPLICATIONS

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

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200  $\mu$ l frozen viral stock containing  $1.0 \times 10^6$  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

TES (G-9): sc-271184 is recommended as a control antibody for monitoring of TES 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 TES gene expression knockdown using RT-PCR Primer: TES (h)-PR: sc-45509-PR (20  $\mu$ l). Annealing temperature for the primers should be  $55-60^\circ\text{C}$  and the extension temperature should be  $68-72^\circ\text{C}$ .

## 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.

## 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.