

TES (AA-7): sc-100914

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 localises to cell-cell contacts and Actin stress fibres, and interacts with a variety of cytoskeletal proteins including Zyxin, Mena, VASP, Talin and Actin. The ability of TES to associate with α -actinin, paxillin and Zyxin is dependent on the conformational state of the molecule. TES contains 3 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.

CHROMOSOMAL LOCATION

Genetic locus: TES (human) mapping to 7q31.2; Tes (mouse) mapping to 6 A2.

SOURCE

TES (AA-7) is a mouse monoclonal antibody raised against recombinant TES of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TES (AA-7) is recommended for detection of TES of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TES siRNA (h): sc-45509, TES siRNA (m): sc-45510, TES shRNA Plasmid (h): sc-45509-SH, TES shRNA Plasmid (m): sc-45510-SH, TES shRNA (h) Lentiviral Particles: sc-45509-V and TES shRNA (m) Lentiviral Particles: sc-45510-V.

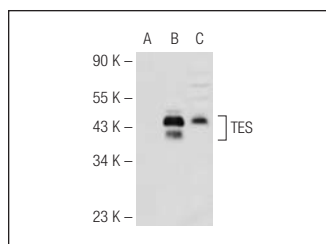
Molecular Weight of TES: 48 kDa.

Positive Controls: TES (h): 293T Lysate: sc-170329, TES (m): 293T Lysate: sc-123983 or K-562 whole cell lysate: sc-2203.

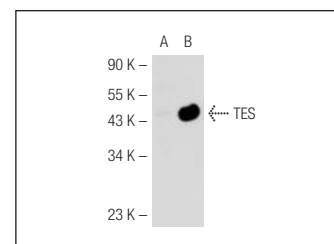
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2050 or ABC: sc-2017 mouse IgG Staining Systems.

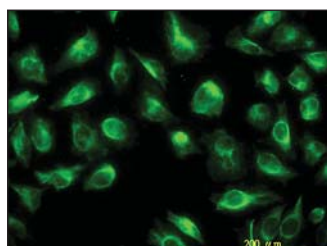
DATA



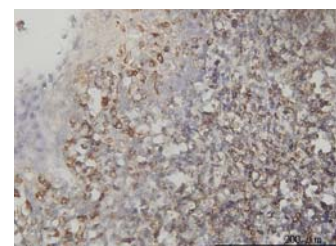
TES (AA-7): sc-100914. Western blot analysis of TES expression in non-transfected 293T: sc-117752 (A), human TES transfected 293T: sc-170329 (B) and K-562 (C) whole cell lysates.



TES (AA-7): sc-100914. Western blot analysis of TES expression in non-transfected: sc-117752 (A) and mouse TES transfected: sc-123983 (B) 293T whole cell lysates.



TES (AA-7): sc-100914. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing cytoplasmic localization.



TES (AA-7): sc-100914. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human tonsil tissue showing cytoplasmic localization.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

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