# TES (G-5): sc-373913



The Power to Question

## **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  $\alpha\text{-}actinin$ , paxillin and Zyxin is dependent on the conformational state of the molecule. TES contains three LIM zincbinding 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.
- 2. 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.
- Chêne, 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.
- Rotter, B., et al. 2005. αII-spectrin interacts with Tes and EVL, two Actinbinding proteins located at cell contacts. Biochem. J. 388: 631-638.

#### **CHROMOSOMAL LOCATION**

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

## **SOURCE**

TES (G-5) is a mouse monoclonal antibody raised against amino acids 304-398 mapping near the C-terminus of TES of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g \ lgG_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

#### **APPLICATIONS**

TES (G-5) is recommended for detection of TES of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TES (G-5) is also recommended for detection of TES in additional species, including equine.

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.

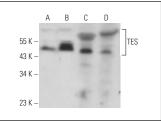
Molecular Weight of TES: 48 kDa.

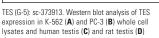
Positive Controls: K-562 whole cell lysate: sc-2203, PC-3 cell lysate: sc-2220 or human testis extract: sc-363781.

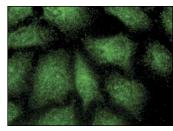
#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

# **DATA**







TES (G-5): sc-373913. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear localization.

# SELECT PRODUCT CITATIONS

 Byron, A., et al. 2022. Characterisation of a nucleo-adhesome. Nat. Commun. 13: 3053.

## **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 for detailed protocols and support products.

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