

## TEF-4 (H-50): sc-67115

### BACKGROUND

The transcriptional enhancer factor (TEF)/TEAD family includes TEF-1, TEF-3, TEF-4 and TEF-5. These proteins share a highly conserved 68 amino acid TEA/ATTS DNA-binding domain, which binds to SV40 GT-IIC (GGAATG), SphI (AGTATG), SphII (AGCATG) and muscle-specific M-CAT (GGTATG) enhancers. TEFs are differentially expressed in human cultured cell lines and mouse embryonic and extra-embryonic tissues. Specifically, TEF-4 is strongly co-expressed with TEF-1 in mouse mitotic neuroblasts and is also detected in the gut and the nephrogenic region of the kidney. TEF-4 associates with the powerful transcriptional coactivator YAP65 to mediate mitogenic signals. In addition, TEF-4 promotes the activation of the CTP:phosphocholine cytidyltransferase (CCT)  $\alpha$  protein, which is the rate-limiting enzyme of phosphatidylcholine biosynthesis, by enhancing the transcriptional activity of Ets-1.

### CHROMOSOMAL LOCATION

Genetic locus: TEAD2 (human) mapping to 19q13.33; Tead2 (mouse) mapping to 7 B4.

### SOURCE

TEF-4 (H-50) is a rabbit polyclonal antibody raised against amino acids 181-230 mapping within an internal region of TEF-4 of human origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-67115 X, 200  $\mu$ g/0.1 ml.

### STORAGE

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

### APPLICATIONS

TEF-4 (H-50) is recommended for detection of TEF-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

Suitable for use as control antibody for TEF-4 siRNA (h): sc-45232, TEF-4 siRNA (m): sc-45233, TEF-4 shRNA Plasmid (h): sc-45232-SH, TEF-4 shRNA Plasmid (m): sc-45233-SH, TEF-4 shRNA (h) Lentiviral Particles: sc-45232-V and TEF-4 shRNA (m) Lentiviral Particles: sc-45233-V.

TEF-4 (H-50) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

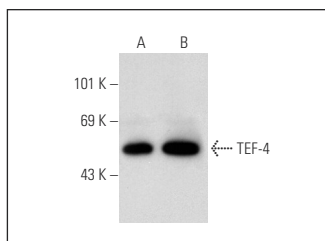
Molecular Weight of TEF-4: 49 kDa.

Positive Controls: TEF-4 (h2): 293T Lysate: sc-176211 or IMR-32 cell lysate: sc-2409.

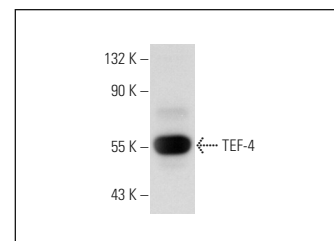
### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



TEF-4 (H-50): sc-67115. Western blot analysis of TEF-4 expression in non-transfected: sc-117752 (A) and human TEF-4 transfected: sc-176211 (B) 293T whole cell lysates.



TEF-4 (H-50): sc-67115. Western blot analysis of TEF-4 expression in IMR-32 whole cell lysate.

### SELECT PRODUCT CITATIONS

- Tamm, C., et al. 2011. Regulation of mouse embryonic stem cell self-renewal by a Yes-YAP-TEAD2 signaling pathway downstream of LIF. *J. Cell Sci.* 124: 1136-1144.
- Schönraht, K., et al. 2011. Involvement of VILIP-1 (visinin-like protein) and opposite roles of cyclic AMP and GMP signaling in *in vitro* cell migration of murine skin squamous cell carcinoma. *Mol. Carcinog.* 50: 319-333.
- Ribas, R., et al. 2011. Members of the TEAD family of transcription factors regulate the expression of Myf5 in ventral somitic compartments. *Dev. Biol.* 355: 372-380.

### RESEARCH USE

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

### PROTOCOLS

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



Try **TEF-4 (404C5a): sc-81397**, our highly recommended monoclonal alternative to TEF-4 (H-50).