TEF-4 (A-16): sc-32428



The Power to Question

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) enhansons. TEFs are differentially expressed in human cultured cell lines and mouse embryonic and extra-embryonic tissues. Specifically, TEF-4 is strongly coexpressed 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 cytidylyltransferase (CCT) α protein, which is the rate-limiting enzyme of phosphatidylcholine biosynthesis, by enhancing the transcriptional activity of Ets-1.

REFERENCES

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- 4. Sugimoto, H., et al. 2001. Identification of transcriptional enhancer factor-4 as a transcriptional modulator of CTP:phosphocholine cytidylyltransferase α . J. Biol. Chem. 276: 12338-12344.
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CHROMOSOMAL LOCATION

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

SOURCE

TEF-4 (A-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TEF-4 of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg lgG 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-32428 X, 200 μg /0.1 ml.

Blocking peptide available for competition studies, sc-32428 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TEF-4 (A-16) 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), 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).

TEF-4 (A-16) is also recommended for detection of TEF-4 in additional species, including equine, canine and bovine.

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 (A-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TEF-4: 49 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.



Try **TEF-4 (404C5a): sc-81397**, our highly recommended monoclonal alternative to TEF-4 (A-16).