

TEF-3 (B-5): sc-390578

BACKGROUND

TEF-3, also known as TEAD4 (TEA domain family member 4), RTEF-1, EFTR-2, TEFR-1, TCF13L1 or hRTEF-1B, is a 427 amino acid member of the transcriptional enhancer factor (TEF) family of proteins that are characterized by the presence of a TEA DNA-binding domain. Localized to the nucleus and expressed primarily in skeletal muscle, TEF-3 functions as a transcriptional regulator by binding specifically and non-cooperatively to the M-CAT motif found in the promoters of muscle-specific genes, thereby directing their subsequent expression. TEF-3 contains one TEA DNA-binding domain and is expressed as multiple isoforms due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: TEAD4 (human) mapping to 12p13.33; Tead4 (mouse) mapping to 6 F3.

SOURCE

TEF-3 (B-5) is a mouse monoclonal antibody raised against amino acids 141-178 mapping within an internal region of TEF-3 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain 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-390578 X, 200 µg/0.1 ml.

TEF-3 (B-5) is available conjugated to agarose (sc-390578 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390578 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390578 PE), fluorescein (sc-390578 FITC), Alexa Fluor® 488 (sc-390578 AF488), Alexa Fluor® 546 (sc-390578 AF546), Alexa Fluor® 594 (sc-390578 AF594) or Alexa Fluor® 647 (sc-390578 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390578 AF680) or Alexa Fluor® 790 (sc-390578 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TEF-3 (B-5) is recommended for detection of TEF-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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-3 siRNA (h): sc-96187, TEF-3 siRNA (m): sc-154179, TEF-3 shRNA Plasmid (h): sc-96187-SH, TEF-3 shRNA Plasmid (m): sc-154179-SH, TEF-3 shRNA (h) Lentiviral Particles: sc-96187-V and TEF-3 shRNA (m) Lentiviral Particles: sc-154179-V.

TEF-3 (B-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of TEF-3: 48 kDa.

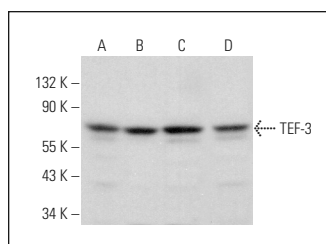
Molecular Weight (observed) of TEF-3: 55 kDa.

Positive Controls: WEHI-231 whole cell lysate: sc-2213, RAW 264.7 whole cell lysate: sc-2211 or TEF-3 (h): 293 Lysate: sc-113218.

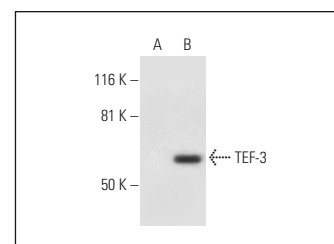
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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



TEF-3 (B-5): sc-390578. Western blot analysis of TEF-3 expression in RAW 264.7 (A), WEHI-231 (B), WR19L (C) and c4 (D) whole cell lysates.



TEF-3 (B-5): sc-390578. Western blot analysis of TEF-3 expression in non-transfected: sc-110760 (A) and human TEF-3 transfected: sc-113218 (B) 293 whole cell lysates.

SELECT PRODUCT CITATIONS

- Li, X., et al. 2022. YAP inhibits ERα and ER+ breast cancer growth by disrupting a TEAD-ERα signaling axis. *Nat. Commun.* 13: 3075.
- Zhang, Y., et al. 2022. TAZ promotes vasculogenic mimicry in gastric cancer through the upregulation of TEAD4. *J. Gastroenterol. Hepatol.* 37: 714-726.

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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