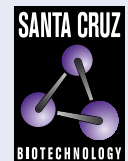


TEL2 (E-1): sc-374478



The Power to Question

BACKGROUND

Ets-1 is the prototype member of a family of genes identified on the basis of homology to the v-Ets oncogene isolated from the E26 erythroblastosis virus. Members of the Ets gene family exhibit varied patterns of tissue expression and share a highly conserved carboxy terminal domain which contains a sequence related to the SV40 large T antigen nuclear localization sequence. This conserved carboxy domain is essential for Ets-1 binding to DNA and is likely to be responsible for the DNA binding activity of all members of the Ets gene family. TEL2, also known as ETV7 (ets variant gene 7), TREF or TELB, is a 341 amino acid nuclear protein that contains one PNT domain and one Ets DNA-binding domain. Expressed in hematopoietic tissue, TEL2 belongs to the Ets family and functions as a transcriptional repressor that binds to the DNA sequence 5'-CCGGAAGT-3'. Defects in the gene encoding TEL2 are associated with B-cell malignancies, suggesting an important role for TEL2 in carcinogenesis. Seven isoforms (designated A-G) of TEL2 exist due to alternative splicing events.

REFERENCES

1. Potter, M.D., et al. 2000. Identification and characterization of a new human ETS-family transcription factor, TEL2, that is expressed in hematopoietic tissues and can associate with TEL1/ETV6. *Blood* 95: 3341-3348.
2. Poirer, H., et al. 2000. Characterization of a novel ETS gene, TELB, encoding a protein structurally and functionally related to TEL. *Oncogene* 19: 4802-4806.
3. Gu, X., et al. 2001. Tel-2 is a novel transcriptional repressor related to the Ets factor Tel/ETV-6. *J. Biol. Chem.* 276: 9421-9436.

CHROMOSOMAL LOCATION

Genetic locus: ETV7 (human) mapping to 6p21.31.

SOURCE

TEL2 (E-1) is a mouse monoclonal antibody raised against amino acids 111-198 mapping within an internal region of TEL2 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-374478 X, 200 µg/0.1 ml.

TEL2 (E-1) is available conjugated to agarose (sc-374478 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374478 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374478 PE), fluorescein (sc-374478 FITC), Alexa Fluor® 488 (sc-374478 AF488), Alexa Fluor® 546 (sc-374478 AF546), Alexa Fluor® 594 (sc-374478 AF594) or Alexa Fluor® 647 (sc-374478 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374478 AF680) or Alexa Fluor® 790 (sc-374478 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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RESEARCH USE

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

APPLICATIONS

TEL2 (E-1) is recommended for detection of TEL2 of 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 TEL2 siRNA (h): sc-95523, TEL2 shRNA Plasmid (h): sc-95523-SH and TEL2 shRNA (h) Lentiviral Particles: sc-95523-V.

TEL2 (E-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

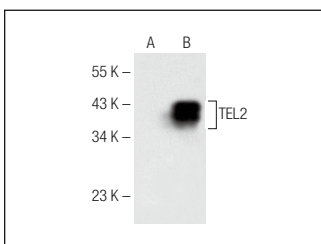
Molecular Weight of TEL2 isoforms: 30-39 kDa.

Positive Controls: TEL2 (h): 293T Lysate: sc-115379 or HeLa whole cell lysate: sc-2200.

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



TEL2 (E-1): sc-374478. Western blot analysis of TEL2 expression in non-transfected: sc-117752 (A) and human TEL2 transfected: sc-115379 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Pezzè, L., et al. 2021. ETV7 regulates breast cancer stem-like cell features by repressing IFN-response genes. *Cell Death Dis.* 12: 742.
2. Meškytė, E.M., et al. 2023. ETV7 reduces inflammatory responses in breast cancer cells by repressing the TNFR1/NF-κB axis. *Cell Death Dis.* 14: 263.

STORAGE

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