

TDP2 (H-300): sc-135214

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. This family of genes currently includes Ets-1, Ets-2, Erg-1-3, Elk-1, Elf-1, Elf-5, NERF, PU.1, PEA3, ERM, FEV, ER81, Fli-1, TEL, Spi-B, ESE-1, ESE-3A, Net, ABT1 and ERF. Members of the Ets gene family exhibit varied patterns of tissue expression, and share a highly conserved carboxy terminal domain containing a sequence related to the SV40 large T antigen nuclear localization signal sequence. This conserved 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. Several of these proteins have been shown to recognize similar motifs in DNA that share a centrally located 5'-GGAA-3' element. Evidence indicates that the DNA binding activity by Ets-1 is regulated at the level of phosphorylation. The Ets-1-associated protein II (EAPII, also designated TDP2) interacts with Ets-1 as a negative modulator of Ets-1 transcriptional activity. TDP2 predominantly localizes to the nucleus.

REFERENCES

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2. Reddy, E.S.P., et al. 1987. The Erg gene: a human gene related to the Ets oncogene. *Proc. Natl. Acad. Sci. USA* 84: 6131-6135.
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4. Rao, V.N., et al. 1989. Elk, tissue-specific Ets-related genes on chromosomes X and 14 near translocation breakpoints. *Science* 244: 66-70.
5. Burtis, K.C., et al. 1990. The *Drosophila* 74EF early puff contains E74, a complex ecdysone-inducible gene that encodes two ets-related proteins. *Cell* 61: 85-99.
6. Fisher, C.L., et al. 1991. Ligation of membrane Ig leads to calcium-mediated phosphorylation of the proto-oncogene product, Ets-1. *J. Immunol.* 146: 1743-1749.
7. Xin, J.-H., et al. 1992. Molecular cloning and characterization of PEA3, a new member of the Ets oncogene family that is differentially expressed in mouse embryonic cells. *Genes Dev.* 6: 481-496.
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CHROMOSOMAL LOCATION

Genetic locus: TDP2 (human) mapping to 6p22.3; Tdp2 (mouse) mapping to 13 A3.1.

SOURCE

TDP2 (H-300) is a rabbit polyclonal antibody raised against amino acids 63-362 mapping at the C-terminus of TDP2 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TDP2 (H-300) is recommended for detection of TDP2 of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, 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).

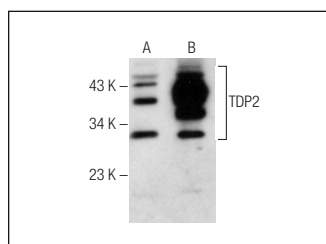
TDP2 (H-300) is also recommended for detection of TDP2 in additional species, including equine and porcine.

Suitable for use as control antibody for TDP2 siRNA (h): sc-60566, TDP2 siRNA (m): sc-60567, TDP2 shRNA Plasmid (h): sc-60566-SH, TDP2 shRNA Plasmid (m): sc-60567-SH, TDP2 shRNA (h) Lentiviral Particles: sc-60566-V and TDP2 shRNA (m) Lentiviral Particles: sc-60567-V.

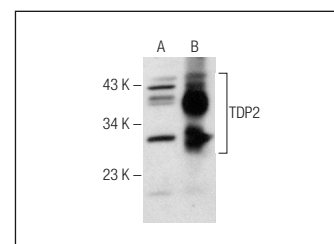
Molecular Weight of TDP2: 49 kDa.

Positive Controls: TDP2 (h): 293T Lysate: sc-370234 or HeLa whole cell lysate: sc-2200.

DATA



TDP2 (H-300): sc-135214. Western blot analysis of TDP2 expression in non-transfected: sc-117752 (A) and human TDP2 transfected: sc-370234 (B) 293T whole cell lysates.



TDP2 (H-300): sc-135214. Western blot analysis of TDP2 expression in non-transfected: sc-110760 (A) and human TDP2 transfected: sc-112226 (B) 293 whole cell lysates.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **TDP2 (H-6): sc-377280** or **TDP2 (16): sc-130314**, our highly recommended monoclonal alternatives to TDP2 (H-300).