

Ets-2 (C-20): sc-351

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.

CHROMOSOMAL LOCATION

Genetic locus: ETS2 (human) mapping to 21q22.2, ETS1 (human) mapping to 11q23.3; Ets2 (mouse) mapping to 16 C4, Ets1 (mouse) mapping to 9 A4.

SOURCE

Ets-2 (C-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of Ets-2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-351 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as agarose conjugate for immunoprecipitation, sc-351 AC, 500 µg/0.25 ml agarose in 1 ml; and as TransCruz reagent for Gel Supershift and ChIP applications, sc-351 X, 200 µg/0.1 ml.

APPLICATIONS

Ets-2 (C-20) is recommended for detection of Ets-2, and to a lesser extent, Ets-1 of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ets-2 (C-20) is also recommended for detection of Ets-2, and, to a lesser extent, Ets-1 in additional species, including equine, canine, bovine, porcine and avian.

Ets-2 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Ets-2: 55 kDa.

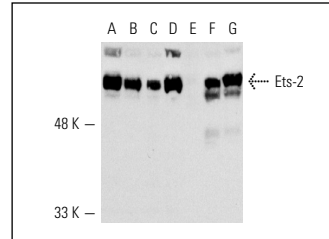
RESEARCH USE

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

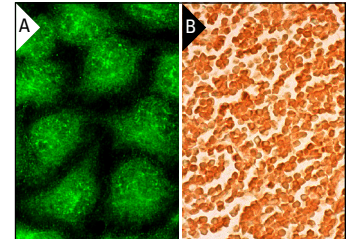
STORAGE

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

DATA



Ets-2 (C-20): sc-351. Western blot analysis of Ets-2 expression in HeLa (A), A-431 (B), MCF7 (C), A-673 (D), K-562 (E) and Jurkat (F,G) nuclear extracts.



Ets-2 (C-20): sc-351. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing nuclear and cytoplasmic staining of cells in germinal centers and cells in non-germinal centers (B).

SELECT PRODUCT CITATIONS

- Ezashi, T., et al. 1998. Control of interferon-Tau gene expression by Ets-2. *Proc. Natl. Acad. Sci. USA* 95: 7882-7887.
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- Choul-Li, S., et al. 2010. Caspase cleavage of Ets-1 p51 generates fragments with transcriptional dominant-negative function. *Biochem. J.* 426: 229-241.
- Zarnegar, M.A., et al. 2010. Cell-type-specific activation and repression of PU.1 by a complex of discrete, functionally specialized *cis*-regulatory elements. *Mol. Cell. Biol.* 30: 4922-4939.
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- Miyamoto, N., et al. 2011. Quercetin induces the expression of peroxiredoxins 3 and 5 via the Nrf2/NRF1 transcription pathway. *Invest. Ophthalmol. Vis. Sci.* 52: 1055-1063.


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Try **Ets-2 (E-5): sc-365666** or **Ets-2 (G-8): sc-365584**, our highly recommended monoclonal alternatives to Ets-2 (C-20).