

Ets-2 (H-140): sc-22803

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, E1f-1, E1f-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; Ets2 (mouse) mapping to 16 C4.

SOURCE

Ets-2 (H-140) is a rabbit polyclonal antibody raised against amino acids 161-300 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-22803 X, 200 µg/0.1 ml.

APPLICATIONS

Ets-2 (H-140) is recommended for detection of Ets-2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Ets-2 siRNA (h): sc-37855, Ets-2 siRNA (m): sc-37856, Ets-2 shRNA Plasmid (h): sc-37855-SH, Ets-2 shRNA Plasmid (m): sc-37856-SH, Ets-2 shRNA (h) Lentiviral Particles: sc-37855-V and Ets-2 shRNA (m) Lentiviral Particles: sc-37856-V.

Ets-2 (H-140) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Ets-2: 55 kDa.

Positive Controls: Ets-2 (m): 293T Lysate: sc-120131, K-562 nuclear extract: sc-2130 or MCF7 nuclear extract: sc-2149.

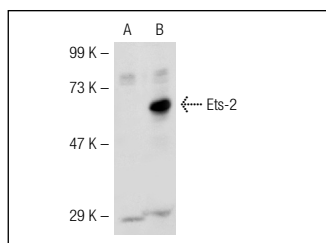
STORAGE

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.

DATA



Ets-2 (H-140): sc-22803. Western blot analysis of Ets-2 expression in non-transfected: sc-117752 (A) and mouse Ets-2 transfected: sc-120131 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Ye, S.K., et al. 2005. Transcriptional regulation of the mouse interleukin-2 receptor β chain gene by Ets and Egr-1. *Biochem. Biophys. Res. Commun.* 329: 1094-1101.
- Zhu, J.D., et al. 2006. Transcription of the putative tumor suppressor gene HCCS1 requires binding of ETS-2 to its consensus near the transcription start site. *Cell Res.* 16: 780-796.
- Finco, T.S., et al. 2006. Regulation of the human LAT gene by the E1f-1 transcription factor. *BMC Mol. Biol.* 7: 4.
- Nischan, J., et al. 2009. Binding sites for ETS family of transcription factors dominate the promoter regions of differentially expressed genes in abdominal aortic aneurysms. *Circ. Cardiovasc. Genet.* 2: 565-572.
- Gao, D., et al. 2009. Cdh1 regulates cell cycle through modulating the claspin/Chk1 and the Rb/E2F1 pathways. *Mol. Biol. Cell* 20: 3305-3316.
- Fayyad-Kazan, H., et al. 2010. Valproate treatment of human cord blood CD4-positive effector T cells confers on them the molecular profile (microRNA signature and FOXP3 expression) of natural regulatory CD4-positive cells through inhibition of histone deacetylase. *J. Biol. Chem.* 285: 20481-20491.
- Kidder, B.L., et al. 2010. Examination of transcriptional networks reveals an important role for TCFAP2C, SMARCA4, and EOMES in trophoblast stem cell maintenance. *Genome Res.* 20: 458-472.
- Mole, D.J., et al. 2011. Expression of osteopontin coregulators in primary colorectal cancer and associated liver metastases. *Br. J. Cancer* 104: 1007-1012.



Try **Ets-2 (E-5): sc-365666** or **Ets-2 (G-8): sc-365584**, our highly recommended monoclonal alternatives to Ets-2 (H-140).