SANTA CRUZ BIOTECHNOLOGY, INC.

Elk-1 (I-20): sc-355



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, ER8I, 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.

CHROMOSOMAL LOCATION

Genetic locus: ELK1 (human) mapping to Xp11.23; Elk1 (mouse) mapping to X A1.3.

SOURCE

Elk-1 (I-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of Elk-1 of human origin.

PRODUCT

Each vial contains 100 μ g lgG 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-355 X, 100 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-355 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

Elk-1 (I-20) is recommended for detection of Elk-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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Elk-1 (I-20) is also recommended for detection of Elk-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Elk-1 siRNA (h): sc-35290, Elk-1 siRNA (m): sc-35291, Elk-1 shRNA Plasmid (h): sc-35290-SH, Elk-1 shRNA Plasmid (m): sc-35291-SH, Elk-1 shRNA (h) Lentiviral Particles: sc-35290-V and Elk-1 shRNA (m) Lentiviral Particles: sc-35291-V.

Elk-1 (I-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Elk-1: 62 kDa.

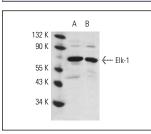
STORAGE

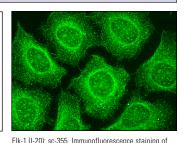
Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

DATA





methanol-fixed HeLa cells showing nuclear and

cytoplasmic localization

Elk-1 (I-20): sc-355. Western blot analysis of Elk-1 expression in NIH/3T3 (**A**) and 3611-RF (**B**) whole cell lysates.

SELECT PRODUCT CITATIONS

- Muller, J.M., et al. 1997. Hypoxia induces c-Fos transcription via a mitogen activated protein kinase dependent pathway. J. Biol. Chem. 272: 23435-23439.
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- Mahmoodzadeh, S., et al. 2010. 17β-estradiol inhibits matrix metalloproteinase-2 transcription via MAP kinase in fibroblasts. Cardiovasc. Res. 85: 719-728.
- Yang, X., et al. 2010. Appearance of the pituitary factor Pit-1 increases chromatin remodeling at hypersensitive site III in the human GH locus. J. Mol. Endocrinol. 45: 19-32.
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- Casar, B., et al. 2012. Mxi2 sustains ERK1/2 phosphorylation in the nucleus by preventing ERK1/2 binding to phosphatases. Biochem. J. 441: 571-578.
- He, X., et al. 2013. Serum response factor is overexpressed in esophageal squamous cell carcinoma and promotes Eca-109 cell proliferation and invasion. Oncol. Lett. 5: 819-824.

MONOS Satisfation Guaranteed

Try Elk-1 (E-5): sc-365876 or Elk-1 (3H6D12): sc-65986, our highly recommended monoclonal aternatives to Elk-1 (I-20). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see Elk-1 (E-5): sc-365876.