#### SANTA CRUZ BIOTECHNOLOGY, INC.

# Fli-1 (C-19): sc-356



#### 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: FLI1 (human) mapping to 11q24.3; Fli1 (mouse) mapping to 9 A4.

#### SOURCE

Fli-1 (C-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of Fli-1 of mouse origin.

#### PRODUCT

Each vial contains 100  $\mu$ 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-356 X, 100  $\mu$ g/0.1 ml.

Fli-1 (C-19) is available conjugated to agarose (sc-356 AC), 500  $\mu g/0.25$  ml agarose in 1 ml, for IP.

Blocking peptide available for competition studies, sc-356 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

Fli-1 (C-19) is recommended for detection of Fli-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). Fli-1 (C-19) is also recommended for detection of Fli-1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Fli-1 siRNA (h): sc-35384, Fli-1 siRNA (m): sc-35385, Fli-1 shRNA Plasmid (h): sc-35384-SH, Fli-1 shRNA Plasmid (m): sc-35385-SH, Fli-1 shRNA (h) Lentiviral Particles: sc-35384-V and Fli-1 shRNA (m) Lentiviral Particles: sc-35385-V.

Fli-1 (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Fli-1: 51 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





Fli-1 (C-19): sc-356. Western blot analysis of Fli-1 expression in RAW 264.7 (A), HL-60 (B), U-937 (C) and BJAB (D) whole cell lysates.

Fli-1 (C-19): sc-356. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tumor showing nuclear staining (**A**). Immunofluorescence staining of methanol-fixed HeLa cells showing nucleolar and nuclear localization (**B**).

#### SELECT PRODUCT CITATIONS

- Sarrazin, S., et al. 2000. Negative and translation termination-dependent positive control of Fli-1 protein synthesis by conserved overlapping 5' upstream open reading frames in Fli-1 mRNA. Mol. Cell. Biol. 20: 2959-2969.
- Starck, J., et al. 2010. Inducible Fli-1 gene deletion in adult mice modifies several myeloid lineage commitment decisions and accelerates proliferation arrest and terminal erythrocytic differentiation. Blood 116: 4795-4805.
- Sohn, E.J., et al. 2010. EWS/FLI1 oncogene activates caspase 3 transcription and triggers apoptosis *in vivo*. Cancer Res. 70: 1154-1163.
- Thaler, R., et al. 2011. Homocysteine suppresses the expression of the collagen cross-linker lysyl oxidase involving IL-6, Fli1, and epigenetic DNA methylation. J. Biol. Chem. 286: 5578-5588.
- Rahim, S., et al. 2011. YK-4-279 inhibits ERG and ETV1 mediated prostate cancer cell invasion. PLoS ONE 6: e19343.
- Boro, A., et al. 2012. Small-molecule screen identifies modulators of EWS/FLI1 target gene expression and cell survival in Ewing's sarcoma. Int. J. Cancer 13: 2153-2164.
- Schachterle, W., et al. 2012. ETS-dependent regulation of a distal Gata4 cardiac enhancer. Dev. Biol. 361: 439-449.

#### PROTOCOLS

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

## MONOS Satisfation Guaranteed

Try Fli-1 (F-12): sc-365294 or Fli-1 (23D10): sc-134223, our highly recommended monoclonal alternatives to Fli-1 (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see Fli-1 (F-12): sc-365294.