

## FEV (N-19): sc-6531

### 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.

### REFERENCES

1. Ghysdael, J., Gegonne, A., Pognonec, P., Dernis, D., Leprince, D. and Stehelin, D. 1986. Identification and preferential expression in thymic and bursal lymphocytes of a c-Ets oncogene-encoded M<sub>r</sub> 54,000 cytoplasmic protein. *Proc. Natl. Acad. Sci. USA* 83: 1714-1718.
2. Burtis, K.C., Thummel, C.S., Jones, C.W., Karin, F.D. and Hogness, D.S. 1990. The *Drosophila* 74EF early puff contains E74, a complex ecdysone-inducible gene that encodes two Ets-related proteins. *Cell* 61: 85-99.
3. Xin, J.H., Cowie, A., Lachance, P. and Hassell, J.A. 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.
4. Kola, I., Brookes, S., Green, A.R., Garber, R., Tymms, M., Papas, T.S. and Seth, A. 1993. The Ets-1 transcription factor is widely expressed during murine embryo development and is associated with mesodermal cells involved in morphogenetic processes such as organ formation. *Proc. Natl. Acad. Sci. USA* 90: 7588-7592.
5. Oettgen, P., Akbarali, Y., Boltax, J., Best, J., Kunsch, C. and Libermann, T.A. 1996. Characterization of NERF, a novel transcription factor related to the Ets factor Elf-1. *Mol. Cell. Biol.* 16: 5091-5106.
6. Dhulipal, P.D. 1997. Ets oncogene family. *Indian J. Exp. Biol.* 35: 315-322.

### CHROMOSOMAL LOCATION

Genetic locus: FEV (human) mapping to 2q35; Fev (mouse) mapping to 1 C3.

### SOURCE

FEV (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of FEV 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-6531 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6531 X, 200 µg/0.1 ml.

### APPLICATIONS

FEV (N-19) is recommended for detection of FEV of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

FEV (N-19) is also recommended for detection of FEV in additional species, including equine and bovine.

Suitable for use as control antibody for FEV siRNA (h): sc-37859, FEV siRNA (m): sc-37860, FEV shRNA Plasmid (h): sc-37859-SH, FEV shRNA Plasmid (m): sc-37860-SH, FEV shRNA (h) Lentiviral Particles: sc-37859-V and FEV shRNA (m) Lentiviral Particles: sc-37860-V.

FEV (N-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### SELECT PRODUCT CITATIONS

1. Maurer, P., T'Sas, F., Coutte, L., Callens, N., Brenner, C., Van Lint, C., de Launoit, Y. and Baert, J.L. 2003. FEV acts as a transcriptional repressor through its DNA-binding ETS domain and alanine-rich domain. *Oncogene* 22: 3319-3329.

### 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.