

Elf-5 (N-20): sc-9645

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. Elf-5 is a member of the Ets family that may be involved in lung, mammary, prostate and kidney function, and may also play a role in tumorigenesis.

CHROMOSOMAL LOCATION

Genetic locus: ELF5 (human) mapping to 11p13; Elf5 (mouse) mapping to 2 E2.

SOURCE

Elf-5 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Elf-5 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-9645 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-9645 X, 200 µg/0.1 ml.

APPLICATIONS

Elf-5 (N-20) is recommended for detection of Elf-5 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).

Elf-5 (N-20) is also recommended for detection of Elf-5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Elf-5 siRNA (h): sc-37839, Elf-5 siRNA (m): sc-37840, Elf-5 shRNA Plasmid (h): sc-37839-SH, Elf-5 shRNA Plasmid (m): sc-37840-SH, Elf-5 shRNA (h) Lentiviral Particles: sc-37839-V and Elf-5 shRNA (m) Lentiviral Particles: sc-37840-V.

Elf-5 (C-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

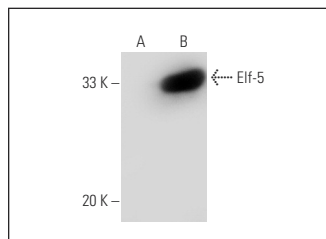
Molecular Weight of Elf-5: 31 kDa.

Positive Controls: Elf-5 (h): 293T Lysate: sc-113749, Elf-5 (m): 293T Lysate: sc-126783 or HeLa whole cell lysate: sc-2200.

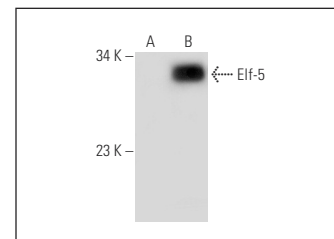
STORAGE

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

DATA



Elf-5 (N-20): sc-9645. Western blot analysis of Elf-5 expression in non-transfected: sc-117752 (A) and human Elf-5 transfected: sc-113749 (B) 293T whole cell lysates.



Elf-5 (N-20): sc-9645. Western blot analysis of Elf-5 expression in non-transfected: sc-117752 (A) and mouse Elf-5 transfected: sc-126783 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Zhou, J., et al. 2005. Elf-5 is essential for early embryogenesis and mammary gland development during pregnancy and lactation. *EMBO J.* 24: 635-644.
- Harris, J., et al. 2006. Socs2 and Elf-5 mediate prolactin-induced mammary gland development. *Mol. Endocrinol.* 20: 1177-1187.
- Oakes, S.R., et al. 2008. The Ets transcription factor Elf-5 specifies mammary alveolar cell fate. *Genes Dev.* 22: 581-586.
- Choi, Y.S., et al. 2009. Elf-5 conditional knockout mice reveal its role as a master regulator in mammary alveolar development: failure of Stat5 activation and functional differentiation in the absence of Elf5. *Dev. Biol.* 329: 227-241.
- Rogers, R.L., et al. 2010. Transcript profiling of Elf5^{+/-} mammary glands during pregnancy identifies novel targets of Elf5. *PLoS ONE* 5: e13150.
- Sevilla, L.M., et al. 2010. Glucocorticoid receptor regulates overlapping and differential gene subsets in developing and adult skin. *Mol. Endocrinol.* 24: 2166-2178.
- Elsarraj, H.S., et al. 2013. A novel role of microRNA146b in promoting mammary alveolar progenitor cell maintenance. *J. Cell Sci.* 126: 2446-2458.

RESEARCH USE

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



Try **Elf-5 (C-1): sc-376737** or **Elf-5 (G-2): sc-166653**, our highly recommended monoclonal alternatives to Elf-5 (N-20).