

Elf-4 (F-11): sc-390689

BACKGROUND

The Ets-1 family of transcription factors has a conserved DNA binding domain through which it plays an important role in cellular proliferation, differentiation, hematopoiesis and angiogenesis. This domain, also known as the Ets domain, binds to DNA sequences containing the consensus sequence 5'-WGGA-3', which is known as the Ets-binding domain. Elf-4, also known as myeloid Elf-1-like factor, ELF4 or MEF, is a 663 amino acid member of the Ets-1 family. Localized to the nucleus, Elf-4 is highly expressed in placenta and myeloid leukemia cells, with lower levels of expression lung, heart, thymus, spleen, colon, ovary and peripheral blood lymphocytes. Functioning primarily to activate the promoters of hematopoietic growth factor genes, such as GM-CSF, IL-3 and IL-8, Elf-4 has also been shown to activate the Perforin 1 promoter in natural killer (NK) cells, suggesting a possible role in tumorigenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ELF4 (human) mapping to Xq26.1; Elf4 (mouse) mapping to X A4.

SOURCE

Elf-4 (F-11) is a mouse monoclonal antibody raised against amino acids 521-663 mapping at the C-terminus of Elf-4 of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain 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-390689 X, 200 µg/0.1 ml.

APPLICATIONS

Elf-4 (F-11) is recommended for detection of Elf-4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 Elf-4 siRNA (h): sc-91302, Elf-4 siRNA (m): sc-144630, Elf-4 shRNA Plasmid (h): sc-91302-SH, Elf-4 shRNA Plasmid (m): sc-144630-SH, Elf-4 shRNA (h) Lentiviral Particles: sc-91302-V and Elf-4 shRNA (m) Lentiviral Particles: sc-144630-V.

Elf-4 (F-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

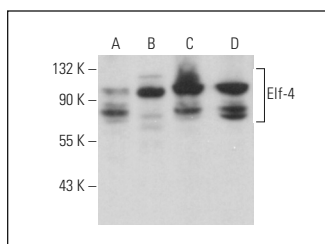
Molecular Weight of Elf-4: 71 kDa.

Positive Controls: Elf-4 (h2): 293T Lysate: sc-176225, HeLa whole cell lysate: sc-2200 or M1 whole cell lysate: sc-364782.

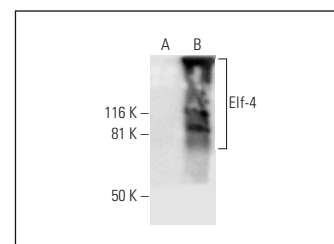
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Elf-4 (F-11): sc-390689. Western blot analysis of Elf-4 expression in HeLa (A) and M1 (B) whole cell lysates and HEL 92.1.7 (C) and HL-60 (D) nuclear extracts.



Elf-4 (F-11): sc-390689. Western blot analysis of Elf-4 expression in non-transfected: sc-117752 (A) and human Elf-4 transfected: sc-176225 (B) 293T whole cell lysates.

RESEARCH USE

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