

ERM (F-20): sc-19522

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 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 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., et al. 1986. Identification and preferential expression in thymic and bursal lymphocytes of a c-Ets oncogene-encoded M_r 54,000 cytoplasmic protein. *Proc. Natl. Acad. Sci. USA* 83: 1714.
2. Reddy, E.S., et al. 1987. The erg gene: a human gene related to the ets oncogene. *Proc. Natl. Acad. Sci. USA* 84: 6131-6135.
3. Rao, V.N., et al. 1989. Elk, tissue-specific Ets-related genes on chromosomes X and 14 near translocation breakpoints. *Science* 244: 66-70.
4. Fisher, C.L., et al. 1991. Ligation of membrane Ig leads to calcium-mediated phosphorylation of the proto-oncogene product, Ets-1. *J. Immunol.* 146: 1743-1749.
5. Xin, J.H., et al. 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.
6. Monte, D., et al. 1994. Molecular cloning and characterization of human ERM, a new member of the Ets family closely related to mouse PEA3 and ER81 transcription factors. *Oncogene* 9: 1397-1406.
7. Jeon, I.S., et al. 1995. A variant Ewing's sarcoma translocation (7;22) fuses the EWS gene to the Ets gene ETV1. *Oncogene* 10: 1229-1234.

CHROMOSOMAL LOCATION

Genetic locus: ETV5 (human) mapping to 3q27.2; Etv5 (mouse) mapping to 16 B1.

SOURCE

ERM (F-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ERM 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-19522 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-19522 X, 200 µg/0.1 ml.

APPLICATIONS

ERM (F-20) is recommended for detection of ERM 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).

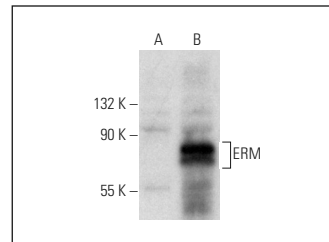
Suitable for use as control antibody for ERM siRNA (h): sc-37849, ERM siRNA (m): sc-37850, ERM shRNA Plasmid (h): sc-37849-SH, ERM shRNA Plasmid (m): sc-37850-SH, ERM shRNA (h) Lentiviral Particles: sc-37849-V and ERM shRNA (m) Lentiviral Particles: sc-37850-V.

ERM (F-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

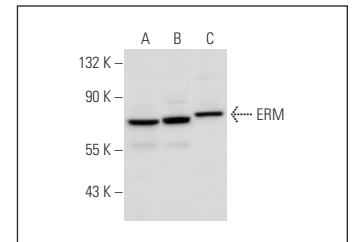
Molecular Weight of ERM: 72 kDa.

Positive Controls: ERM (h): 293T Lysate: sc-170187, NIH/3T3 nuclear extract: sc-2138 or Raji whole cell lysate: sc-364236.

DATA



ERM (F-20): sc-19522. Western blot analysis of ERM expression in non-transfected: sc-117752 (A) and human ERM transfected: sc-170187 (B) 293T whole cell lysates.



ERM (F-20): sc-19522. Western blot analysis of ERM expression in NIH/3T3 nuclear extract (A) and Raji (B) and RAW 264.7 (C) whole cell lysates.

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 or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **ERM (H-06): sc-100941** or **ERM (3H3): sc-293164**, our highly recommended monoclonal alternatives to ERM (F-20).