

NERF (V-19): sc-6829

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.

CHROMOSOMAL LOCATION

Genetic locus: ELF2 (human) mapping to 4q31.1; Elf2 (mouse) mapping to 3 C.

SOURCE

NERF (V-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of NERF 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6829 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6829 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NERF (V-19) is recommended for detection of NERF-1a, NERF-1b and NERF-2 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).

NERF (V-19) is also recommended for detection of NERF-1a, NERF-1b and NERF-2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NERF siRNA (h): sc-43961, NERF siRNA (m): sc-45937, NERF shRNA Plasmid (h): sc-43961-SH, NERF shRNA Plasmid (m): sc-45937-SH, NERF shRNA (h) Lentiviral Particles: sc-43961-V and NERF shRNA (m) Lentiviral Particles: sc-45937-V.

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

Molecular Weight of NERF: 64 kDa.

Positive Controls: K-562 nuclear extract: sc-2130 or NERF (h2): 293T Lysate: sc-170205.

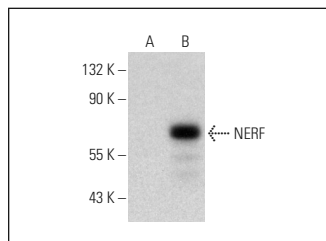
RESEARCH USE

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

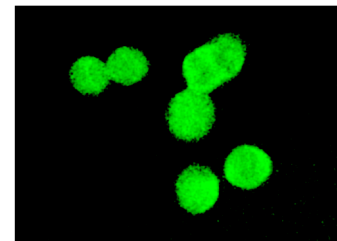
STORAGE

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

DATA



NERF (V-19): sc-6829. Western blot analysis of NERF expression in non-transfected: sc-117752 (A) and human NERF transfected: sc-170205 (B) 293T whole cell lysates.



NERF (V-19): sc-6829. Immunofluorescence staining of methanol-fixed K-562 cells showing nuclear staining.

SELECT PRODUCT CITATIONS

1. Sarafova, S., et al. 1999. A potential role for Elf-1 in CD4 promoter function. *J. Biol. Chem.* 274: 16126-16134.
2. Sohn, R.H., et al. 2005. Regulation of endothelial thrombomodulin expression by inflammatory cytokines is mediated by activation of nuclear factor κ B. *Blood* 105: 3910-3917.
3. Nischan, J., et al. 2009. Binding sites for ETS family of transcription factors dominate the promoter regions of differentially expressed genes in abdominal aortic aneurysms. *Circ. Cardiovasc. Genet.* 2: 565-572.

PROTOCOLS

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



Try **NERF (224C4a): sc-130632**, our highly recommended monoclonal alternative to NERF (V-19).