

NKRF (C-19): sc-54132

BACKGROUND

NKRF (NF κ B-repressing factor), also known as transcription factor NRF or ITBA4 protein, is a ubiquitously expressed silencer protein. It localizes to the nucleoli but is also found in the nucleoplasm and contains one of each of the following nucleic acid binding domains: G-patch and R3H. NKRF represses the basal transcription of IFN- β , IL-8 and NOS2 by directly binding to their promoters. NKRF also binds to negative regulatory elements (NREs) and directly interacts with NF κ B via its N-terminus. NKRF specifically inhibits the transcriptional activity of the NF κ B proteins. In addition, NKRF contains a 5' untranslated region (UTR) that has internal ribosome entry segment (IRES) activity. The activity of the NKRF IRES module is decreased with the down-regulation of the RNA-binding protein, JKTBP1.

CHROMOSOMAL LOCATION

Genetic locus: NKRF (human) mapping to Xq24; Nkrf (mouse) mapping to X A3.3.

SOURCE

NKRF (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NKRF of human origin.

PRODUCT

Each vial contains 200 μ g 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-54132 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-54132 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

NKRF (C-19) is recommended for detection of NF κ B-repressing factor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

NKRF (C-19) is also recommended for detection of NF κ B-repressing factor in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NKRF siRNA (h): sc-72275, NKRF siRNA (m): sc-72276, NKRF shRNA Plasmid (h): sc-72275-SH, NKRF shRNA Plasmid (m): sc-72276-SH, NKRF shRNA (h) Lentiviral Particles: sc-72275-V and NKRF shRNA (m) Lentiviral Particles: sc-72276-V.

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

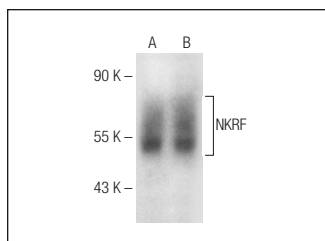
Molecular Weight of NKRF: 64 kDa.

Positive Controls: A549 nuclear extract, A-431 whole cell lysate: sc-2201 or HL-60 nuclear extract: sc-2147.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



NKRF (C-19): sc-54132. Western blot analysis of NKRF expression in A549 (A) and HL-60 (B) nuclear extracts.

STORAGE

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

PROTOCOLS

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



Try **NKRF (E-12): sc-365568**, our highly recommended monoclonal alternative to NKRF (C-19).