

NFRκB (H-270): sc-98421

BACKGROUND

NFκB (nuclear factor κB) is a ubiquitously expressed transcriptional regulator that, when stimulated, can activate transcription of several genes encoding proteins involved in cell cycle control, cell adhesion and programmed cell death. NFRκB (nuclear factor related to κB-binding protein), also known as DNA-binding protein R κ-B, is a nuclear protein that binds to the DNA consensus sequence 5'-GGGGAATCTCC-3' of NFκB. Binding of NFRκB is thought to regulate IL-2Rα (interleukin-2 receptor α chain) gene expression, a critical step in T cell activation. NFRκB exists as three isoforms due to alternative splicing and is expressed primarily in the brain, liver, spleen, testis and thymus. NFRκB gene expression is amplified in acute myeloid leukemia, suggesting a possible role in carcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NFRKB (human) mapping to 11q24.3; Nfrkb (mouse) mapping to 9 A4.

SOURCE

NFRκB (H-270) is a rabbit polyclonal antibody raised against amino acids 388-657 mapping within an internal region of NFRκB 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-98421 X, 200 µg/0.1 ml.

APPLICATIONS

NFRκB (H-270) is recommended for detection of NFRκB 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).

NFRκB (H-270) is also recommended for detection of NFRκB in additional species, including equine, canine and bovine.

Suitable for use as control antibody for NFRκB siRNA (h): sc-96360, NFRκB siRNA (m): sc-149945, NFRκB shRNA Plasmid (h): sc-96360-SH, NFRκB shRNA Plasmid (m): sc-149945-SH, NFRκB shRNA (h) Lentiviral Particles: sc-96360-V and NFRκB shRNA (m) Lentiviral Particles: sc-149945-V.

NFRκB (H-270) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of NFRκB: 139 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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
Satisfation
Guaranteed

Try **NFRκB (A-12): sc-514977** or **NFRκB (445C4a): sc-81106**, our highly recommended monoclonal alternatives to NFRκB (H-270).