



## NKAP (E-14): sc-161946

### BACKGROUND

NF $\kappa$ B, a pleiotropic transcription factor, is present in almost all cell types and is involved in many biological processes including inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF $\kappa$ B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NF $\kappa$ B1/p105, NF $\kappa$ B1/p50, REL and NF $\kappa$ B2/p52. This complex is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NKAP (NF $\kappa$ B-activating protein) is a 415 amino acid nuclear protein that regulates TNF and IL1-induced NF $\kappa$ B activation. As component of a DNA-binding complex, NKAP also functions as a transcriptional repressor that acts on NOTCH target genes. Loss of NKAP blocks the development of alphabeta T- cells, suggesting that it is required for their maturation through repression of NOTCH genes.

### REFERENCES

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6. Pajerowski, A.G., Nguyen, C., Aghajanian, H., Shapiro, M.J. and Shapiro, V.S. 2009. NKAP is a transcriptional repressor of notch signaling and is required for T cell development. *Immunity* 30: 696-707.
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### CHROMOSOMAL LOCATION

Genetic locus: NKAP (human) mapping to Xq24; Nkap (mouse) mapping to X A3.3.

### SOURCE

NKAP (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NKAP of human origin.

### RESEARCH USE

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

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-161946 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

NKAP (E-14) is recommended for detection of NKAP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with NKAPL.

Suitable for use as control antibody for NKAP siRNA (h): sc-90888, NKAP siRNA (m): sc-149988, NKAP shRNA Plasmid (h): sc-90888-SH, NKAP shRNA Plasmid (m): sc-149988-SH, NKAP shRNA (h) Lentiviral Particles: sc-90888-V and NKAP shRNA (m) Lentiviral Particles: sc-149988-V.

Molecular Weight of NKAP: 52 kDa.

### 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) 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.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.