

RelB (K-20): sc-30888

BACKGROUND

The NF κ B transcription factor was originally identified as a protein complex consisting of a DNA binding subunit and an associated protein. The subunit is functionally related to c-Rel p75 and RelB p68. The p50 subunit was initially believed to be a functionally unique protein derived from the amino terminus of a precursor designated p105. A second protein designated p52 (previously referred to as p49) has been identified that can act as an alternative NF κ B subunit. RelB does not bind with high affinity to NF κ B sites, but heterodimers between RelB and p50 bind with an affinity comparable to that of p50 NF κ B homodimers. However, RelB/p50 hetero-dimers, in contrast to NF κ B heterodimers, transactivates transcription of promoters containing κ B binding sites.

REFERENCES

1. Sen, R., et al. 1986. Multiple nuclear factors interact with the immunoglobulin enhancer sequences. *Cell* 46: 705-716.
2. Baeuerle, P.A., et al. 1989. A 65-kD subunit of active NF κ B is required for inhibition of NF κ B by I κ B. *Genes Dev.* 3: 1689-1698.
3. Gilmore, T. 1990. NF κ B, κ BFI dorsal and related matters. *Cell* 62: 841-843.
4. Ghosh, S., et al. 1990. Cloning of the p50 DNA binding subunit of NF κ B: homology to rel and dorsal. *Cell* 62: 1019-1029.
5. Bours, V., et al. 1990. Cloning of a mitogen-inducible gene encoding a κ B DNA-binding protein with homology to the Rel oncogene and to cell cycle motifs. *Nature* 348: 76-80.
6. Schmid, R.M., et al. 1991. Cloning of an NF κ B subunit which stimulates HIV transcription in synergy with p65. *Nature* 352: 733-736.
7. Ryseck, R.P., et al. 1992. RelB, a new rel family transcription activator that can interact with p50 NF κ B. *Mol. Cell. Biol.* 12: 674-684.

CHROMOSOMAL LOCATION

Genetic locus: RELB (human) mapping to 19q13.32; Relb (mouse) mapping to 7 A3.

SOURCE

RelB (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RelB 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.

Blocking peptide available for competition studies, sc-30888 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

RelB (K-20) is recommended for detection of RelB 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).

RelB (K-20) is also recommended for detection of RelB in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RelB siRNA (h): sc-36402, RelB siRNA (m): sc-36403, RelB shRNA Plasmid (h): sc-36402-SH, RelB shRNA Plasmid (m): sc-36403-SH, RelB shRNA (h) Lentiviral Particles: sc-36402-V and RelB shRNA (m) Lentiviral Particles: sc-36403-V.

Molecular Weight of RelB: 68 kDa.

Positive Controls: KNRK nuclear extract: sc-2141, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

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.

PROTOCOLS

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



Try **RelB (D-4): sc-48366** or **RelB (C-4): sc-48379**, our highly recommended monoclonal alternatives to RelB (K-20). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **RelB (D-4): sc-48366**.