SANTA CRUZ BIOTECHNOLOGY, INC.

# RelB (h): 293T Lysate: sc-114651

## BACKGROUND

The NFκB transcription factor was originally identified as a protein complex consisting of a DNA binding subunit and an associated protein. The DNA binding 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 NFκB subunit. RelB does not bind with high affinity to NFκB sites, but heterodimers between RelB and p50 bind with an affinity comparable to that of p50 NFκB homodimers. However, RelB/p50 heterodimers, in contrast to NFκB heterodimers, transactivates transcription of promotors containing κB binding sites.

## REFERENCES


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2. Baeuerle, P.A. and Baltimore, D. 1989. A 65 kDa subunit of active NFκB is required for inhibition of NFκB by IκB. Genes Dev. 3: 1689-1698.
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4. Ghosh, S., Gifford, A.M., Riviere, L.R., Tempst, P., Nolan, G.P. and Baltimore, D. 1990. Cloning of the p50 DNA binding subunit of NFκB: homology to Rel and Dorsal. Cell 62: 1019-1029.
5. Bours, V., Villalobos, J., Burd, P.R., Kelly, K. and Siebenlist, U. 1990. Cloning of a mitogen-inducible gene encoding a κB DNA-binding protein with homology to the Rel oncogene and to cell cycle motifs. Nature 348: 76-80.
6. Schmid, R.M., Perkins, N.D., Duckett, C.S., Andrews, P.C. and Nabel, G.J. 1991. Cloning of an NFκB subunit which stimulates HIV transcription in synergy with p65. Nature 352: 733-736.
7. Ryseck, R.-P., Bull, P., Takamiya, M., Bours, V., Siebenlist, U., Dobrzanski, P. and Bravo, R. 1992. RelB, a new Rel family transcription activator that can interact with p50 NFκB. Mol. Cell. Biol. 12: 674-684.


## CHROMOSOMAL LOCATION

Genetic locus: RELB (human) mapping to 19q13.32.

## PRODUCT

RelB (h): 293T Lysate represents a lysate of human RelB transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

RelB (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RelB antibodies. Recommended use: 10-20 µl per lane.

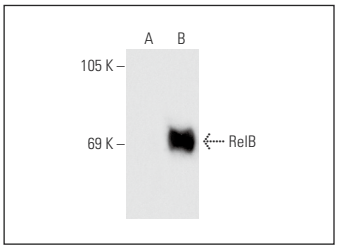
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RelB (D-4): sc-48366 is recommended as a positive control antibody for Western Blot analysis of enhanced human RelB expression in RelB transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

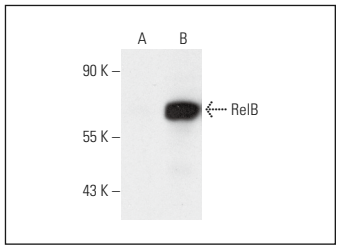
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA




RelB (D-4): sc-48366. Western blot analysis of RelB expression in non-transfected: sc-117752 (**A**) and human RelB transfected: sc-114651 (**B**) 293T whole cell lysates.




RelB (C-4): sc-48379. Western blot analysis of RelB expression in non-transfected: sc-117752 (**A**) and human RelB transfected: sc-114651 (**B**) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.