



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# RelB (m): 293T Lysate: sc-127459

## BACKGROUND

The NF $\kappa$ B 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 NF $\kappa$ B subunit. RelB does not bind with high affinity to NF $\kappa$ B sites, but heterodimers between RelB and p50 bind with an affinity comparable to that of p50 NF $\kappa$ B homodimers. However, RelB/p50 heterodimers, in contrast to NF $\kappa$ B heterodimers, transactivates transcription of promoters containing  $\kappa$ B binding sites.

## REFERENCES

- Sen, R., et al. 1986. Multiple nuclear factors interact with the immunoglobulin enhancer sequences. *Cell* 46: 705-716.
- Baeuerle, P.A., et al. 1989. A 65 kDa subunit of active NF $\kappa$ B is required for inhibition of NF $\kappa$ B by I $\kappa$ B. *Genes Dev.* 3: 1689-1698.
- Gilmore, T. 1990. NF $\kappa$ B,  $\kappa$ BFI Dorsal and related matters. *Cell* 62: 841-843.
- Ghosh, S., et al. 1990. Cloning of the p50 DNA binding subunit of NF $\kappa$ B: homology to Rel and Dorsal. *Cell* 62: 1019-1029.
- Bours, V., et al. 1990. Cloning of a mitogen-inducible gene encoding a  $\kappa$ B DNA-binding protein with homology to the Rel oncogene and to cell cycle motifs. *Nature* 348: 76-80.
- Schmid, R.M., et al. 1991. Cloning of an NF $\kappa$ B subunit which stimulates HIV transcription in synergy with p65. *Nature* 352: 733-736.
- Ryseck, R.P., et al. 1992. RelB, a new Rel family transcription activator that can interact with p50 NF $\kappa$ B. *Mol. Cell. Biol.* 12: 674-684.
- MacDonald, K.P., et al. 2007. Effector and regulatory T cell function is differentially regulated by RelB within antigen-presenting cells during GVHD. *Blood* 109: 5049-5057.
- Vaira, S., et al. 2008. RelB is the NF $\kappa$ B subunit downstream of NIK responsible for osteoclast differentiation. *Proc. Natl. Acad. Sci. USA* 105: 3897-902.

## CHROMOSOMAL LOCATION

Genetic locus: Relb (mouse) mapping to 7 A3.

## PRODUCT

RelB (m): 293T Lysate represents a lysate of mouse RelB transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  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.

## APPLICATIONS

RelB (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RelB antibodies. Recommended use: 10-20  $\mu$ l per lane.

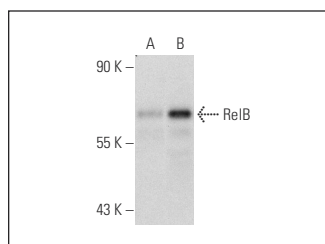
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RelB (C-4): sc-48379 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse 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-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



RelB (C-4): sc-48379. Western blot analysis of RelB expression in non-transfected: sc-117752 (A) and mouse RelB transfected: sc-127459 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.