

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

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 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 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 heterodimers, in contrast to NF κ B heterodimers, transactivates transcription of promoters containing κ B binding sites.

REFERENCES

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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.
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8. 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.
9. Vaira, S., et al. 2008. RelB is the NF κ 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 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

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

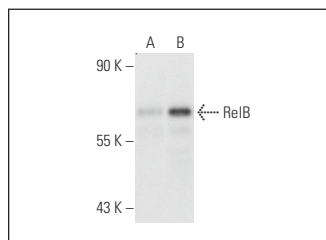
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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 κ BP-HRP: sc-516102 or m-IgG κ 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 (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 for detailed protocols and support products.