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NFκB p50 (m): 293T Lysate: sc-122025

BACKGROUND

Proteins encoded by the v-Rel viral oncogene and its cellular homolog, c-Rel, are members of a family of transcription factors that include the two subunits of the transcription factor NFκB (p50 and p65) and the *Drosophila* maternal morphagen, dorsal. These proteins share sequence homology over a region of 300 amino acids at their NH₂-terminus, the region that contains their DNA binding and dimerization domains. The DNA binding activity of NFκB is activated and rapidly transported from the cytoplasm to the nucleus in cells exposed to mitogens or growth factors. cDNAs encoding precursors for two distinct proteins have been described. These proteins, designated p105 and p100, are highly related but map on different chromosomes. The p105 (p110) precursor contains p50 at its N-terminus and a C-terminal region that when expressed as a separate molecule, designated Pdl, binds to p50 and regulates its activity.

REFERENCES

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6. Beg, A.A., et al. 1995. Embryonic lethality and liver degeneration in mice lacking the Rel A component of NFκB. *Nature* 376: 167-170.
7. Huxford, T., et al. 1998. The crystal structure of the IκBα/NFκB complex reveals mechanisms of NFκB inactivation. *Cell* 95: 759-770.
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CHROMOSOMAL LOCATION

Genetic locus: Nfkb1 (mouse) mapping to 3 G3.

PRODUCT

NFκB p50 (m): 293T Lysate represents a lysate of mouse NFκB p50 transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

APPLICATIONS

NFκB p50 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive NFκB p50 antibodies. Recommended use: 10-20 μl per lane.

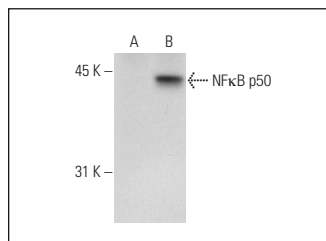
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

NFκB p50 (E-10): sc-8414 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse NFκB p50 expression in NFκB p50 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



NFκB p50 (E-10): sc-8414. Western blot analysis of NFκB p50 expression in non-transfected: sc-117752 (A) and mouse NFκB p50 transfected: sc-122025 (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.