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# I $\kappa$ B- $\beta$ (h): 293T Lysate: sc-159317

## BACKGROUND

On the basis of both functional and structural considerations, members of the I $\kappa$ B family of proteins can be divided into four groups. The first of these groups, I $\kappa$ B- $\alpha$ , includes the avian protein pp40 and the mammalian MAD-3, both of which inhibit binding of p50-p65 NF $\kappa$ B complex or Rel protein to their cognate binding sites but do not inhibit the binding of p50 homodimer to  $\kappa$ B sites, suggesting that the I $\kappa$ B- $\alpha$  family binds to the p65 subunit of p50-p65 heterocomplex through Ankyrin repeats. The second member of the I $\kappa$ B family is represented by a protein designated I $\kappa$ B- $\beta$ . The third group of I $\kappa$ B proteins is represented by I $\kappa$ B- $\gamma$ , which is identical in sequence with the C-terminal domain of the p110 precursor of NF $\kappa$ B p50 and expressed predominantly in lymphoid cells. An additional I $\kappa$ B family member has been identified as I $\kappa$ B- $\epsilon$ , has several phosphorylated forms and is primarily found complexed with Rel A and/or c-Rel.

## REFERENCES

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2. Kerr, L.D., et al. 1991. The Rel-associated pp40 protein prevents DNA binding of Rel and NF $\kappa$ B: relationship with I $\kappa$ B- $\beta$  and regulation by phosphorylation. *Genes Dev.* 5: 1464-1476.
3. Davis, N., et al. 1991. Rel-associated pp40: an inhibitor of the Rel family of transcription factors. *Science* 252: 1268-1271.
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6. Thompson, J.E., et al. 1995. I $\kappa$ B- $\beta$  regulates the persistent response in biphasic activation of NF $\kappa$ B. *Cell* 80: 573-582.
7. Whiteside, S.T., et al. 1997. I $\kappa$ B- $\epsilon$ , a novel member of the I $\kappa$ B family, controls RelA and c-Rel NF $\kappa$ B activity. *EMBO J.* 16: 1413-1426.
8. Simeonidis, S., et al. 1997. Cloning and functional characterization of mouse I $\kappa$ B- $\epsilon$ . *Proc. Natl. Acad. Sci. USA* 94: 14372-14377.

## CHROMOSOMAL LOCATION

Genetic locus: NFKB1B (human) mapping to 19q13.2.

## PRODUCT

I $\kappa$ B- $\beta$  (h): 293T Lysate represents a lysate of human I $\kappa$ B- $\beta$  transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ 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.

## PROTOCOLS

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

## APPLICATIONS

I $\kappa$ B- $\beta$  (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive I $\kappa$ B- $\beta$  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.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.