

I κ B- β (h): 293T Lysate: sc-159317

BACKGROUND

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

REFERENCES

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4. Haskill, S., et al. 1991. Characterization of an immediate-early gene induced in adherent monocytes that encodes I κ B-like activity. *Cell* 65: 1281-1289.
5. Inoue, J.I., et al. 1992. I κ B- γ , a 70 kDa protein identical to the C-terminal half of p110 NF κ B; a new member of the I κ B family. *Cell* 68: 1109-1120.
6. Thompson, J.E., et al. 1995. I κ B- β regulates the persistent response in biphasic activation of NF κ B. *Cell* 80: 573-582.
7. Whiteside, S.T., et al. 1997. I κ B- ϵ , a novel member of the I κ B family, controls RelA and c-Rel NF κ B activity. *EMBO J.* 16: 1413-1426.
8. Simeonidis, S., et al. 1997. Cloning and functional characterization of mouse I κ B- ϵ . *Proc. Natl. Acad. Sci. USA* 94: 14372-14377.

CHROMOSOMAL LOCATION

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

PRODUCT

I κ B- β (h): 293T Lysate represents a lysate of human I κ B- β 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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

I κ B- β (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive I κ B- β 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.

RESEARCH USE

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